DRAFT

AMERICAN RIVER WATERSHED COMMON FEATURES, AMERICAN RIVER CONTRACT 3A

Supplemental Environmental Impact Report/ Environmental Assessment

United States Army Corps of Engineers
Sacramento District
and
Central Valley Flood Protection Board

April 2022

ESA

US Army Corps of Engineers®

CENTRAL VALLEY FLOOD PROTECTION BOARD
PUBLIC SAFETY
FLOOD RISK REDUCTION
STATE OF CALIFORNIA

Preface

The American River Contract 3A project (Proposed Action) includes the installation of levee erosion protection features along the left bank of the Lower American River in the same location as Interstate 80 and upstream of the City of Sacramento's Sutter's Landing Park in the American River Parkway. Most of the levee improvements included in the Proposed Action were analyzed in the 2016 American River Watershed Common Features General Reevaluation Report (ARCF GRR) Final Environmental Impact Statement/Final Environmental Impact Report (FEIS/FEIR). This document is arranged as a Supplemental EIR (Part 1) and a Supplemental EnvironmentalAssessment (SEA) (Part 2) to supplement the ARCF GRR FEIS/FEIR by addressing the environmental impacts from project modifications and design details developed after the ARCF GRR FEIS/FEIR was prepared, approved, and certified. The Supplemental EIR is being prepared by the Central Valley Flood Protection Board (CVFPB) as the State lead agency under the California Environmental Quality Act (CEQA), and the Supplemental EA is being prepared by the U.S. Army Corps of Engineers (USACE) as the lead agency under the National Environmental Policy Act (NEPA).

As described in more detail below, CEQA and NEPA requirements differ, including which project elements require additional environmental analyses and the definition of baselines used to evaluate impacts. The Supplemental EIR (Part 1) and Supplemental EA (Part 2) for the Proposed Action are combined in this document for clarity and completeness.

In accordance with CEQA requirements, Part 1 of this document (the Supplemental EIR) analyzes the proposed project, which includes the Proposed Action components at a greater level of design detail than was available in the ARCF GRR FEIS/FEIR, to support both CEQA lead and responsible agency decision-making. The impacts of the Proposed Action are compared to existing conditions (as of April 2022) to determine impact significance in this Supplemental EIR.

In accordance with NEPA, Part 2 of this document (the Supplemental EA) analyzed only those elements of the Proposed Action which were not previously analyzed in the ARCF GRR FEIS/FEIR and Supplemental NEPA/CEQA documents already prepared for the American River Contracts 1 and 2 projects. Because these prior documents addressed the installation of staging areas, haul routes, borrow sites, potential disposal/stockpiling areas, and mitigation sites, these elements are already authorized for construction, have been considered for their full environmental impacts, and are considered to be part of the NEPA No Action Alternative. The impacts of the Proposed Action are compared to the No Action Alternative to determine impact significance in the Supplemental EA. For NEPA purposes, the Proposed Action includes changes to the ARCF GRR FEIS/FEIR that were not previously analyzed and authorized: (1) staging areas, (2) haul routes, (3) disposal/stockpile site, (4) and erosion protection footprint different from the Project Area defined in the ARCF GRR FEIS/FEIR.

CVFPB will release the Draft Supplemental EIR for public and agency review in accordance with CEQA requirements. USACE will release the Draft Supplemental EA for public and agency review concurrently with the Draft Supplemental EIR. After the review period closes, CVFPB and USACE will consider the comments received and prepare responses. These comments and responses, along with any modifications, will be incorporated into a Final Supplemental EIR and a Final Supplemental EA with a Finding of No Significant Impact to meet NEPA requirements for the Proposed Action.

Environmental commitments and mitigation measures summarized in the Executive Summary (Table ES-1) apply to the Proposed Action as a whole.

Part 1:
DRAFT

AMERICAN RIVER WATERSHED COMMON FEATURES, AMERICAN RIVER CONTRACT 3A

Supplemental Environmental Impact Report
State Clearinghouse Number 2005072046

Prepared for
Central Valley Flood Protection Board

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EXECUTIVE SUMMARY

ES.1 Summary of the Proposed Action

The Proposed Action includes the installation of erosion protection features along the Lower American River in the project area for the American River Watershed Common Features, Water Resources Development Act of (ARCF) 2016 Project, American River Contract 3A. The American River Watershed Common Features General Reevaluation Report Final Environmental Impact Statement/Environmental Impact Report (ARCF GRR FEIS/FEIR) analyzed the basic erosion protection measures that underlie the Proposed Action in this Supplemental EIR. However, some elements of those measures (specifics of designs, staging areas, construction methods, haul routes, disposal of soil, and mitigation sites) were not analyzed in the ARCF GRR FEIS/FEIR because final designs and specs had not been completed. Through project design and refinement, the U.S. Army Corps of Engineers (USACE) and Central Valley Flood Protection Board (CVFPB), also referred to as the Project Partners in this Supplemental EIR, have now identified specific locations and improvements to address erosion concerns, potential staging areas, haul routes, stockpile sites, and off-site mitigation that constitute this Proposed Action. This Supplemental EIR supplements the ARCF GRR FEIS/FEIR by analyzing the environmental effects of these previously unquantified or unidentified elements of the erosion protection measures planned for the Proposed Action in compliance with the California Environmental Quality Act (CEQA).

ES.2 Summary of Environmental Consequences

Table ES-1 summarizes the results of the resource effects analysis of the Proposed Action on the environment, provided in detail in Sections 3.2 through 3.14 of this Supplemental EIR. The table provides a description of resource baselines and effects and significance conclusions before and after implementation of mitigation, and mitigation measures.

ES.3 Areas of Controversy and Issues to Be Resolved

The ARCF GRR FEIS/FEIR identified several areas of controversy based on the comments received during the public scoping period and during past National Environmental Protection Act (NEPA) and CEQA public processes undertaken by

USACE, the CVFPB, and the Sacramento Area Flood Control Agency (SAFCA). Several of these areas of controversy are applicable to the Proposed Action:

- Construction-related effects on residents and businesses adjacent to the project levees.
- Construction-related impacts on biological resources.
- Vegetation and tree removal.
- Effects on cultural resources and resources significant to Native American tribes.
- Impacts on recreation facilities.
- Impacts on endangered species and their habitat.

TABLE ES-1
SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic	Effect	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
3.2 Visual Resources	Result in Short-Term Impacts on the Visual Character of the American River Parkway During Construction	S	None	SU
	Result in a Loss of Vegetation Due to Removal and Construction of Levee Improvements Resulting in Short-Term Effects on Visual Resources of Mature Vegetation	S	Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site. Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal. Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat.	LTS
	Result in Long-Term Adverse Impact on Visual Resources to Users Within the American River Parkway	S	Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site. Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal. Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat.	LTS
	Create a New Source of Substantial Light or Glare that Would Adversely Affect Day or Nighttime Views in the Area	S	Mitigation Measure VIS-1: Shield Temporary Nighttime Lighting.	LTS
3.3 Hydrology and Water Quality	Result in Changes to the Levee Footprint, In-Channel Geometry or Characteristics, River Hydraulics, and/or Impede or Redirect Flood Flows	LTS	None	LTS
	Violate Any Water Quality Standards or Waste Discharge Requirements or Otherwise Substantially Degrade Surface or Groundwater Quality, Result in Substantial Erosion or Siltation on- or off-site, or Conflict with or Obstruct Implementation of a Water Quality Control Plan.	S	Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat. Mitigation Measure WQ-1: Prepare and Implement a Storm Water Pollution Prevention Plan, Spill Prevention Control and Countermeasures Plan, and Associated Best Management Practices.	LTS

LTS = less than significant; S = significant; SU = significant and unavoidable.

TABLE ES-1 (CONTINUED)
SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic	Effect	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
3.4 Vegetation and Wildlife	Result in Short-Term Adverse Effects on Riparian Habitat and Waters of the United States	S	Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site.	SU
			Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal.	
			Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds.	
			Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat.	
	Result in Long-Term Adverse Effects on Riparian Habitat and Waters of the United States	S	Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site.	LTS
			Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal.	
			Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds.	
			Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat.	
3.5 Fisheries	Adverse Effects on Fisheries Resources	S	Mitigation Measure FISH-1: Observe In-Water Work Windows.	LTS
			Mitigation Measure FISH-2: Analyze Hazardous Materials Spills and Implement Measures to Control Contamination.	
			Mitigation Measure FISH-3: Implement Measures to Avoid and Minimize Effects on Listed Fish Species.	
			Mitigation Measure FISH-4: Implement Measures to Avoid and Minimize Effects on Listed Fish Species.	
			Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat.	
			Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site.	
			Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal.	
			Mitigation Measure WQ-1: Prepare and Implement a Storm Water Pollution Prevention Plan, Spill Prevention Control and Countermeasures Plan, and Associated Best Management Practices.	

LTS = less than significant; S = significant; SU = significant and unavoidable.

TABLE ES-1 (CONTINUED)
SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic	Effect	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
3.6 Special Status Species	Adverse Effect on Special Status Species: Valley Elderberry Longhorn Beetle	S	Mitigation Measure VELB-1: Implement Current USFWS Avoidance, Minimization, and Compensation Measures for Valley Elderberry Longhorn Beetle.	LTS
	Adverse Effect on Special Status Species: Western Yellow-Billed Cuckoo	S	Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds. Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site. Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal.	LTS
	Adverse Effect on Special Status Species: Swainson's Hawk	S	Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds. Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site. Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal.	LTS
	Adverse Effect on Special Status Species: Bank Swallow	S	Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds.	LTS
	Adverse Effect on Special Status Species: Burrowing Owl	S	Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds.	LTS
	Adverse Effect on Special Status Species: White-Tailed Kite	S	Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds. Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site. Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal.	LTS
	Adverse Effect on Special Status Species: Purple Martin	S	Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds.	LTS
	Adverse Effect on Special Status Species: Other Breeding and Migratory Birds	S	Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds.	LTS
	Adverse Effect on Special Status Species: Western Pond Turtle	S	Mitigation Measure TURTLE-1: Implement Measures to Avoid and Minimize Effects on Western Pond Turtle. Mitigation Measure WQ-1: Prepare and Implement a Storm Water Pollution Prevention Plan, Spill Prevention Control and Countermeasures Plan, and Associated Best Management Practices.	LTS

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TABLE ES-1 (CONTINUED)
SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic	Effect	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
3.6 Special Status Species (cont.)	Adverse Effect on Special Status Species: Pallid Bat	S	Mitigation Measure BATS-1: Implement Measures to Protect Maternity Roosts of Special Status Bats.	LTS
	Adverse Effect on Special Status Species: Western Red Bat	S	Mitigation Measure BATS-1: Implement Measures to Protect Maternity Roosts of Special Status Bats.	LTS
	Adverse Effect on Special Status Species: American Badger	S	Mitigation Measure BADGER-1: Implement Measures to Avoid and Minimize Effects on American Badger.	LTS
	Adverse Effect on Special Status Species: Crotch Bumble Bee	S	Mitigation Measure BEE-1: Implement Measures to Avoid and Minimize Effects on Crotch Bumble Bee. Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site. Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal.	LTS
	Adverse Effect on Special Status Species: Sanford's Arrowhead	S	Mitigation Measure PLANT-1: Implement Measures to Avoid and Minimize Effects on Special Status Plants.	LTS
	Adverse Effect on Special Status Species: Bristly Sedge and Woolly Rose-Mallow	S	Mitigation Measure PLANT-1: Implement Measures to Avoid and Minimize Effects on Special Status Plants.	LTS
	Adverse Effect on Special Status Species: Winter-Run Chinook Salmon	S	Mitigation Measure FISH-1: Observe In-Water Work Windows. Mitigation Measure FISH-2: Analyze Hazardous Materials Spills and Implement Measures to Control Contamination. Mitigation Measure FISH-3: Implement Measures to Avoid and Minimize Effects on Listed Fish Species. Mitigation Measure FISH-4: Implement Measures to Avoid and Minimize Effects on Listed Fish Species. Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat. Mitigation Measure WQ-1: Prepare and Implement a Storm Water Pollution Prevention Plan, Spill Prevention Control and Countermeasures Plan, and Associated Best Management Practices.	LTS

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TABLE ES-1 (CONTINUED)
SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic	Effect	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
3.6 Special Status Species (cont.)	Adverse Effect on Special Status Species: Spring-Run Chinook Salmon	S	Mitigation Measure FISH-1: Observe In-Water Work Windows.	LTS
			Mitigation Measure FISH-2: Analyze Hazardous Materials Spills and Implement Measures to Control Contamination.	
			Mitigation Measure FISH-3: Implement Measures to Avoid and Minimize Effects on Listed Fish Species.	
			Mitigation Measure FISH-4: Implement Measures to Avoid and Minimize Effects on Listed Fish Species.	
			Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat.	
			Mitigation Measure WQ-1: Prepare and Implement a Storm Water Pollution Prevention Plan, Spill Prevention Control and Countermeasures Plan, and Associated Best Management Practices.	
	Adverse Effect on Special Status Species: Central Valley Fall/Late Fall-Run Chinook Salmon	S	Mitigation Measure FISH-1: Observe In-Water Work Windows.	LTS
			Mitigation Measure FISH-2: Analyze Hazardous Materials Spills and Implement Measures to Control Contamination.	
			Mitigation Measure FISH-3: Implement Measures to Avoid and Minimize Effects on Listed Fish Species.	
			Mitigation Measure FISH-4: Implement Measures to Avoid and Minimize Effects on Listed Fish Species.	
			Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat.	
			Mitigation Measure WQ-1: Prepare and Implement a Storm Water Pollution Prevention Plan, Spill Prevention Control and Countermeasures Plan, and Associated Best Management Practices.	

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TABLE ES-1 (CONTINUED)
SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic	Effect	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
3.6 Special Status Species (cont.)	Adverse Effect on Special Status Species: California Central Valley Steelhead	S	Mitigation Measure FISH-1: Observe In-Water Work Windows. Mitigation Measure FISH-2: Analyze Hazardous Materials Spills and Implement Measures to Control Contamination. Mitigation Measure FISH-3: Implement Measures to Avoid and Minimize Effects on Listed Fish Species. Mitigation Measure FISH-4: Implement Measures to Avoid and Minimize Effects on Listed Fish Species. Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat. Mitigation Measure WQ-1: Prepare and Implement a Storm Water Pollution Prevention Plan, Spill Prevention Control and Countermeasures Plan, and Associated Best Management Practices.	LTS
	Adverse Effect on Special Status Species: Green Sturgeon	LTS	None	LTS
3.7 Cultural Resources	Damage to or Destruction of Unknown or Subsurface Historic-Period Sites, Prehistoric-Period Archaeological Sites, and Native American Identified Tribal Cultural Resources	S	Mitigation Measure CR-1: Resolve Adverse Effects through a Programmatic Agreement and Historic Properties Treatment Plan. Mitigation Measure CR-2: Prepare an Archaeological Discovery Plan and an Archaeological Monitoring Plan. Mitigation Measure CR-3: Conduct Cultural Resources Awareness Training. Mitigation Measure CR-4: Implement Procedures for Discovery of Cultural Material. Mitigation Measure CR-5: Evaluate Any Tribal Cultural Resources Discovered and Implement Avoidance and Minimization Measures to Avoid Significant Adverse Effects.	LTS
	Potential Damage to or Destruction of Previously Undocumented Human Remains	S	Mitigation Measure CR-6: Implement Procedures for Discovery of Human Remains.	LTS
3.8 Transportation and Circulation	Temporary Increase in Traffic Load or Temporary Decrease in Capacity along Designated Roadways in the Project Area	S	None	SU
	Increase Exposure of People to Significant Public Safety Hazards Resulting from Construction Activities on or Near the Public Road System	S	Mitigation Measure TR-1: Prepare and Implement a Traffic Control and Road Maintenance Plan.	LTS

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TABLE ES-1 (CONTINUED)
SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic	Effect	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
3.8 Transportation and Circulation (cont.)	Increase Parking Demand	S	Mitigation Measure TR-1: Prepare and Implement a Traffic Control and Road Maintenance Plan.	LTS
	Increase Hazards Due to a Deterioration of Roadways	S	Mitigation Measure TR-1: Prepare and Implement a Traffic Control and Road Maintenance Plan.	LTS
	Interfere with Emergency Access	S	Mitigation Measure TR-1: Prepare and Implement a Traffic Control and Road Maintenance Plan.	LTS
	Conflict or be Inconsistent with Vehicle-Miles-Traveled Standards	LTS	None	LTS
	Conflict with a Program, Plan, or Ordinance: Decreased Performance or Safety of Alternative Modes of Transportation	S	Mitigation Measure TR-1: Prepare and Implement a Traffic Control and Road Maintenance Plan. Mitigation Measure TR-2: Provide Bicycle and Pedestrian Access.	LTS
3.9 Air Quality	Potential Conflict with Air Quality Plan or Contribute Substantially to Air Quality Violation	S	Mitigation Measure AQ-1: Implement SMAQMD's Basic Construction Emissions Control Practices. Mitigation Measure AQ-2: Implement Enhanced Fugitive Dust Control Practices. Mitigation Measure AQ-3: Develop and Implement a Plan for Enhanced On-Site Exhaust Controls. Mitigation Measure AQ-4: Use Electric Construction Equipment. Mitigation Measure AQ-5: Pay NOx Mitigation Fee to SMAQMD.	LTS
	Potentially Expose Sensitive Receptors to Short-Term Dust Emissions	S	Mitigation Measure AQ-2: Implement Enhanced Fugitive Dust Control Practices.	LTS
	Potentially Expose Sensitive Receptors to Short-Term Emissions of Toxic Air Contaminants	S	Mitigation Measure AQ-1: Implement SMAQMD's Basic Construction Emissions Control Practices. Mitigation Measure AQ-2: Implement Enhanced Fugitive Dust Control Practices. Mitigation Measure AQ-3: Develop and Implement a Plan for Enhanced On-Site Exhaust Controls. Mitigation Measure AQ-4: Use Electric Construction Equipment.	LTS
	Potentially Expose Sensitive Receptors to Major Source of Odor	LTS	None	LTS
	Operational Emissions of Criteria Air Pollutants and Precursors	LTS	None	LTS

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TABLE ES-1 (CONTINUED)
SUMMARY OF IMPACTS AND MITIGATION MEASURES

Resource Topic	Effect	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
3.10 Greenhouse Gas Emissions and Energy Consumption	Temporary, Short-term Generation of Greenhouse Gas Emissions or Conflict with an Applicable GHG Emissions Reduction Plan and Effects of Climate Change	S	Mitigation Measure GHG-1: Avoid, Minimize, and Compensate for Greenhouse Gas Emissions Effects.	LTS
	Result in a Potentially Significant Environmental Impact due to Wasteful, Inefficient, or Unnecessary Consumption of Energy Resources, During Project Construction or Operation; and/or Conflict with or Obstruct a State or Local Plan for Renewable Energy or Energy Efficiency	LTS	None	LTS
3.11 Noise	Temporary Increase in Ambient Noise Levels or Exposure of Sensitive Receptors to Excessive Noise or Vibration	S	Mitigation Measure NOISE-1: Implement Noise Reduction Practices. Mitigation Measure NOISE-2: Implement Vibration Control Measures.	LTS
3.12 Recreation	Temporary and Short-term Changes in Recreational Opportunities during Project Construction Activities	S	Mitigation Measure REC-1: Avoid and Minimize Effects on Recreational Use.	SU
3.13 Public Utilities and Service Systems	Result in Solid Waste Generation in the Project Area that Would Exceed Landfill Capacity	LTS	None	LTS
	Adversely Affect Emergency Response Services	S	Mitigation Measure UTIL-1: Avoid and Minimize Service Disruptions and Damage to Utilities and Infrastructure.	LTS
3.14 Hazards and Hazardous Materials	Possible Exposure of People and the Environment to Existing Hazardous Materials, Including Cortese-listed Sites	S	Mitigation Measure HAZ-1: Implement Stormwater Pollution Prevention Plan Best Management Practices and Test Site for Contaminants Prior to Construction.	LTS
	Interfere with Emergency Response Plan or Evacuation Plan	LTS	Mitigation Measure TR-1: Prepare and Implement a Traffic Control and Road Maintenance Plan.	LTS

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Acronyms and Other Abbreviations

Acronym or Abbreviation	Definition
2017 Scoping Plan	*California's 2017 Climate Change Scoping Plan*
AB	Assembly Bill
ACE	annual chance exceedance
AFV	alternative fuel vehicle
APE	Area of Potential Effects
ARCF	American River Watershed Common Features
ARCF GRR	American River Watershed Common Features General Reevaluation Report
ARCF GRR FEIS/FEIR	May 2016 American River Watershed Common Features General Reevaluation Report Final Environmental Impact Statement/Environmental Impact Report
Arid West Supplement	*Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*
Basin Plan	*Water Quality Control Plan for the Sacramento River Basin and the San Joaquin River Basin*
BMP	best management practice
BO	biological opinion
BPWG	Bank Protection Working Group
Business Plan	Hazardous Material Release Response Plan
BWFS	Basin-Wide Feasibility Study
CAA	Federal Clean Air Act
CAAQS	California ambient air quality standards
CAFE	Corporate Average Fuel Economy
Cal EPA	California Environmental Protection Agency
Cal/OSHA	California Occupational Safety and Health Administration
CalEEMod	California Emissions Estimator Model
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations

Acronym or Abbreviation	Definition
cfs	cubic feet per second
CHHSL	California Human Health Screening Level
City	City of Sacramento
CNDDB	California Natural Diversity Database
CO	carbon monoxide
County	County of Sacramento
CRHR	California Register of Historical Resources
CSUS	California State University, Sacramento
CUPA	Certified Unified Program Agency
CVFPB	Central Valley Flood Protection Board
CVFPP	Central Valley Flood Protection Plan
CWA	Clean Water Act
cy	cubic yards
dBA	A-weighted decibel
DOT	U.S. Department of Transportation
DWR	California Department of Water Resources
EA	Environmental Assessment
EIS/EIR	environmental impact statement/environmental impact report
EO	executive order
EP	Engineering Pamphlet
EPA	U.S. Environmental Protection Agency
EPAct	Energy Policy Act of 1992
ESA	Endangered Species Act
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FONSI	Finding of No Significant Impact
FR	*Federal Register*
FTA	Federal Transit Administration
GHG	greenhouse gas
GIS	geographic information system
GPS	Global Positioning System
GRR	general reevaluation report
H:V	slope ratio of horizontal to vertical

Acronym or Abbreviation	Definition
HMMAMP	Habitat Mitigation, Monitoring, and Adaptive Management Plan
HPMP	Historic Properties Management Plan
HPTP	Historic Properties Treatment Plan
HRA	health risk assessment
HSC	California Health and Safety Code
I-5	Interstate 5
I-80	Interstate 80
IEPR	Integrated Energy Policy Report
in/sec	inches per second
IWM	instream woody material
LAR	Lower American River
LARTF	Lower American River Task Force
lb/day	pounds per day
L_{eq}	average hourly noise level
LMA	local maintaining agency
L_{max}	maximum noise level
MBTA	Migratory Bird Treaty Act
MLD	Most Likely Descendant
mm	millimeters
MRZ	Mineral Resource Zone
MSAT Protocol	Mobile Source Air Toxics Protocol
$MTCO_2e$/year	metric tons of carbon dioxide equivalent per year
NAAQS	national ambient air quality standards
NAHC	Native American Heritage Commission
NCIC	North Central Information Center
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
NHPA	National Historic Preservation Act of 1966
NHTSA	National Highway Traffic Safety Administration
NMFS	National Marine Fisheries Service
NN	non-native
NO_x	oxides of nitrogen
NO_2	nitrogen dioxide

Acronym or Abbreviation	Definition
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NTU	nephelometric turbidity unit
NWIC	Northwest Information Center
O&M	operations and maintenance
OHWM	ordinary high-water mark
OSHA	Occupational Safety and Health Administration
PA	*Programmatic Agreement Among the U.S. Army Corps of Engineers and the California State Historic Preservation Officer Regarding the American River Common Features Project, Sacramento and Yolo Counties, California*
Parkway	American River Parkway
Parkway Plan	American River Parkway Plan
Phase 1 ESA	Phase 1 Environmental Site Assessment
$PM_{2.5}$	of 2.5 micrometers or less
PM_{10}	respirable particulate matter with an aerodynamic diameter of 10 micrometers or less
PPV	peak particle velocity
PRC	California Public Resources Code
Project Area	project area for the American River Watershed Common Features, Water Resources Development Act of 2016 Project, American River Contract 3A, Subreach 1
Proposed Action	ARCF 2016 Project, American River Contract 3A
RM	river mile
ROG	reactive organic gases
RPA	Registered Professional Archaeologist
RWQCB	Central Valley Regional Water Quality Control Board
SAFCA	Sacramento Area Flood Control Agency
SAFE Rule	Safer Affordable Fuel-Efficient Vehicles Rule
SAM	Standard Assessment Methodology
SB	Senate Bill
SHPO	State Historic Preservation Officer
SIP	state implementation plan
SMAQMD	Sacramento Metropolitan Air Quality Management District
SO_2	sulfur dioxide

Acronym or Abbreviation	Definition
SPCCP	Spill Prevention Control and Countermeasures Plan
SRA	shaded riverine aquatic (habitat)
SRBPP	Sacramento River Bank Protection Project
SWPPP	Storm Water Pollution Prevention Plan
TAC	toxic air contaminant
TCR	Tribal Cultural Resource
TRAC	Technical Resource Advisory Committee
UAIC	United Auburn Indian Community
Unified Program	Unified Hazardous Waste and Hazardous Materials Management Regulatory Program
Uniform Act	Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970
U.S. 50	U.S. Highway 50
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
VdB	vibration decibels
VELB	valley elderberry longhorn beetle
VMT	vehicle miles traveled
WCM	Water Control Manual
WRDA	Water Resources Development Act
WRI	weighted relative response index

CHAPTER 1
Introduction

1.1 Proposed Action

1.1.1 Development of the Proposed Action

The Lower American River Task Force (LARTF) is a broad stakeholder group that focuses on flood, environmental, and recreational management issues affecting the lower reach of the American River from Folsom Dam to the Sacramento River. In the mid-1990s, LARTF members called for the formation of the Bank Protection Working Group (BPWG) to help plan, design, and implement bank protection features along the Lower American River (LAR). A primary goal of the BPWG is to support Federal, State, and local efforts to provide the highest level of flood protection for the surrounding community and the conservation of irreplaceable resources along the American River Parkway (Parkway). Together with the U.S. Army Corps of Engineers (USACE), the Central Valley Flood Protection Board (CVFPB), the California Department of Water Resources (DWR), and the Sacramento Area Flood Control Agency (SAFCA), the BPWG successfully helped to design and implement five bank protection sites along the LAR that integrated bank protection and habitat. Construction of these sites, referred to as LAR Sites 1–5, was authorized under the Sacramento River Bank Protection Project.

During that same era, the American River Watershed Common Features (ARCF) and the Folsom Dam Modifications projects, which were a part of the 1996 American River Watershed Project, were authorized by Congress in the 1996 Water Resources Development Act (WRDA), with the goal of providing a higher level of flood protection to the Sacramento area. These projects were intended to improve LAR levees to control seepage and increase stability, enlarge the outlet capacity of Folsom Dam, and raise Folsom Dam to increase the level of flood protection for the City and County of Sacramento. In 2002, LARTF participants cooperated in preparing the Lower American River Corridor Management Plan to provide a framework for integrated management of this reach of the river. This management plan served as a catalyst for updating the 1985 American River Parkway Plan in 2008.

Now, with both the Folsom Dam Joint Federal Project and the levee improvements of the American River Common Features WRDA projects completed, the ability to manage large flood events has been improved along the LAR by allowing more water to be safely released from Folsom Dam/Reservoir earlier in a major storm event. There is more flood storage capacity in Folsom Reservoir to control peak inflows and better manage the

releases, up to 160,000 cubic feet per second (cfs) into the LAR during flood emergencies. However, at the time the above-referenced projects were studied, the extent of erosion impacts was not well understood, and none of these projects implemented bank erosion protection measures to address the increased erosion potential from higher and longer releases from Folsom Dam.

As a result, in 2015, LARTF members called for the re-formation of the BPWG to help advise, plan, design, and implement bank erosion protection features along the LAR. The intent was to better understand how the river channel may respond under an extended 160,000 cfs release from Folsom Dam during an extreme flow event. A flow event of this magnitude could have the potential to induce substantial erosion and affect valuable resources in the Parkway and potentially lead to flooding in surrounding urban areas. Because of the highly technical issues facing the BPWG under this scenario, a multi-disciplinary committee composed of various agency and interested party stakeholders was developed. The committee initially consisted of flood control technical experts and was referred to as the Technical Advisory Committee. The need for additional natural resource expertise was identified and formed as the Resource Advisory Committee (RAC). Together, the Technical Advisory Committee and Resource Advisory Committee form the larger Technical Resource Advisory Committee (TRAC) to help consider both existing condition resource impacts and potential short-term and long-term impacts.

The work of the TRAC and its consultant team has focused on technical issues, including use of a more risk-based approach and consistency with identifying and evaluating erosion sites to be consistent with USACE and State (DWR, CVFPB, and Urban Levee Design Criteria) requirements. The efforts of these working groups have resulted in identifying the Proposed Action in this document.

1.1.2 Summary of the Proposed Action

The American River Watershed Common Features General Reevaluation Report Final Environmental Impact Statement/Environmental Impact Report (ARCF GRR FEIS/FEIR) analyzed the basic erosion protection measures that underlie the Proposed Action in this Supplemental EIR. However, some elements of those measures (specifics of designs, staging areas, construction methods, haul routes, disposal of soil, and mitigation sites) were not analyzed in the ARCF GRR FEIS/FEIR because final designs specifications had not been completed. Through project design and refinement, USACE and CVFPB have now identified specific locations and improvements to address erosion concerns, potential staging areas, haul routes, stockpile sites, and off-site mitigation that constitute the Proposed Action. This EIR supplements the ARCF GRR FEIS/FEIR by analyzing the environmental effects of these previously unquantified or unidentified elements of the erosion protection measures planned for the Proposed Action.

The Proposed Action in this document consists of: (1) the installation of approximately 3,000 linear feet of erosion protection and on-site riparian habitat features along one

levee segment of the LAR (Site 1-1); and (2) associated staging areas, stockpile sites, and haul routes. All activities for the Proposed Action comprise the Project Area.

1.2 Proposed Action Area

The Proposed Action is located in the City of Sacramento and in Sacramento County, California, along the left bank of the American River in the same location as Interstate Business 80 (also known as the Capitol City Freeway) and upstream of the City of Sacramento's Sutter's Landing Park in the American River Parkway.

1.3 Purpose of and Need for Proposed Action

The Proposed Action has been formulated to achieve the purpose, needs, and objectives identified in the ARCF GRR. The Proposed Action needs and objectives define the underlying need for the project to which USACE is responding, in conformance with the requirements of the National Environmental Policy Act (NEPA) (40 Code of Federal Regulations [CFR] 1502.13 and 33 CFR Part 325, Appendix B).

The purpose described in the ARCF GRR is to reduce the overall flood risk within the study area. An unacceptably high risk of flooding from levee failure threatens the public safety of approximately 530,000 people, as well as property and critical infrastructure throughout Sacramento. The purpose of the Proposed Action is to construct multiple erosion control measures within the LAR to allow conveyance of the 200-year (160,000 cfs) flood flow without risk of levee failure.

The Sacramento metropolitan area is one of the most at-risk areas for flooding in the United States and has a high probability of flooding due to its location at the confluence and within the floodplain of two major rivers, the Sacramento and American Rivers. Both of these rivers have large watersheds with very high potential runoff. Past runoff events have overwhelmed the existing flood management system, which was designed and built many years ago, before modern construction methods were employed. High flows in the American River associated with flood flows are eroding critical components of the flood management system. In addition to the high risk of flooding, the consequences of flooding in the study area would be catastrophic in terms of life loss and property damage.

The Proposed Action is needed to reduce the risk of levee failure associated with erosion, particularly during high-flow events on the LAR. Site 1-1 is located along a portion of the LAR where the levee is steep and relatively close to the river channel. During high flows, this is subjected to high velocities that significantly increase the risk of erosion, possibly leading to levee failure. The Proposed Action would strengthen the levee system within LAR Site 1-1 and reduce the risk of levee failure from erosion and the risk of a catastrophic flood event within the Sacramento metropolitan area. The need for on-site habitat mitigation site is to mitigate for the adverse effects of the Proposed Action and the larger ARCF GRR on biological resources.

1.4 Related Documents

The Proposed Action is a component of a larger effort in the Sacramento region. USACE and the CVFPB jointly published the ARCF GRR Draft EIS/EIR in March 2015, in accordance with the requirements of NEPA and the California Environmental Quality Act (CEQA) (State Clearinghouse No. 2005072046). The Draft EIS/EIR analyzed the impacts of the ARCF GRR to reduce the overall flood risk within the delineated study area. The study area includes the City of Sacramento and surrounding areas. A FEIS/ FEIR was issued in January 2016, and comments were received between January 22 and February 22, 2016. A revised FEIS/FEIR was issued in May 2016. The Record of Decision for the ARCF GRR was signed by the Assistant Secretary of the Army (Civil Works) on August 29, 2016. The ARCF GRR was authorized by Congress in December 2016. The following is a list of ARCF 2016 Project documentation, or documentation for related actions, which may be relevant to this Supplemental EIR:

- May 1988, Sacramento River Flood Control System Evaluation, Initial Appraisal Report—Sacramento Urban Area, Phase I, USACE Sacramento District.
- December 1991, American River Watershed Investigation California Feasibility Report: Part I—Main Report and Part II—EIS/EIR.
- December 1991, American River Watershed Investigation California Feasibility Report, Volume 2, Appendix G: Section 404 Evaluation.
- March 1996, Supplemental Information Report, American River Watershed Project, California: Part I—Main Report and Part II—Final Supplemental EIS/EIR.
- June 27, 1996, Chief's Report on the Final Supplemental EIS, signed by Acting Chief of Engineers, Major General Pat M. Stevens; and July 1, 1997, Record of Decision on the Final Supplemental EIS, signed by Director of Civil Works, Major General Russell L. Furman.
- November 2008, FEIS for 408 Permission and 404 Permit to Sacramento Area Flood Control Agency for the Natomas Levee Improvement Project, Sacramento, CA, prepared by EDAW/AECOM, Sacramento, California.
- October 2010, FEIS on the Natomas Levee Improvement Project Phase 4b Landside Improvement Project, Sacramento, CA, prepared by AECOM, Sacramento, California.
- September 2015, Final Biological Opinion for the American River Common Features General Reevaluation Report, issued by the U.S. Fish and Wildlife Service, Sacramento, California.
- September 2015, Final Fish and Wildlife Coordination Act for the American River Common Features General Reevaluation Report, issued by the U.S. Fish and Wildlife Service, Sacramento, California.

- December 2015 (revised May 2016), American River Watershed Common Features General Reevaluation Report, FEIS/EIR.
- July 2016, FEIR, North Sacramento Streams, Sacramento River East Levee, Lower American River, and Related Flood Improvements Project, prepared for SAFCA by GEI Consultants.
- August 2016, Record of Decision on ARCF GRR 2015 FEIS/EIR signed by Assistant Secretary of the Army (Civil Works), Jo-Ellen Darcy.
- June 2017, Reinitiation of the ARCF Project, Sacramento County, California.
- February 2019, Final Supplemental EA/Initial Study, ARCF Seepage Stability Berm, Reach D Contract 1.
- May 2019, Reinitiation of the ARCF Project, Sacramento County, California.
- June 2019, Final Supplemental EA/Initial Study, ARCF 2016 Project Beach Stone Lakes Mitigation Site.
- November 2019, Final Supplemental EA/EIR, ARCF 2016, Sacramento River East Levee Contract 1.
- June 2020, Reinitiation, with USFWS, of the ARCF Project, Sacramento County, California.
- September 2020, Reinitiation, with NMFS, of the ARCF Project, Sacramento County, California.
- August 2021, Final Supplemental EIS/EIR, ARCF 2016, Sacramento Weir Widening.
- November 2020, Final Supplemental EA/EIR, ARCF 2016, Sacramento River East Levee Contract 2.
- March 2021, Final Supplemental EA/EIR, ARCF, Water Resources Development Act of 2016, American River Contract 1.
- March 2021, Reinitiation of Formal Consultation on the American River Common Features (ARCF) 2016 Project, Sacramento and Yolo Counties, California Biological Opinion
- May 2021, Endangered Species Act Section 7(a)(2) Biological Opinion, Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the American River Watershed Common Features General Reevaluation Report Reinitiation 2020 Biological Opinion
- June 2021, Final General Conformity Determination for ARCF, Water Resources Development Act of 2016.
- September 2021, Final Supplemental EIS/EIR, ARCF, Water Resources Development Act of 2016, American River Contract 2.

1.5 Authority

As part of the larger American River Watershed Common Features Project, the Proposed Action is authorized by Section 101(a)(1)(A) of the WRDA of 1996, Public Law No. 104-303 Section 101(a)(1), 110 Stat. 3658, 3662–3663 (1996), as amended by Section 366 of the WRDA of 1999, Public Law No. 106-53, Section 366, 113 Stat. 269, 319-320 (1999). Additional authority was provided following the interim general reevaluation study in Section 1322(b) of the WRDA of 2016, Public Law No. 114-322, Section 1322, 130 Stat. 1707, also known as the Water Resources Infrastructure Improvements for Nation Act, and Public Law 115-123 (Bipartisan Budget Act of 2018).

1.6 Purpose of the Supplemental Environmental Impact Statement/Environmental Impact Report

This Supplemental EIR fulfills the following purposes: (1) describes the existing environmental resources in the Project Area; (2) evaluates the environmental effects of the alternatives (see Chapter 2, *Alternatives*) on these resources; and (3) identifies measures to avoid, minimize, or reduce any effects to a less-than-significant level. This Supplemental EIR has been prepared in accordance with CEQA. The CVFPB anticipates that USACE can implement the portion of the authorized ARCF project described in this document as the Proposed Action without additional CEQA analysis beyond this Supplemental EIR.

Section 15162 of the State CEQA Guidelines (California Code of Regulations [CCR], Title 14, Section 15000 et seq.) provides that when an EIR has been certified for a project, a subsequent EIR need not be prepared unless a substantial change in the project, a substantial change in the surrounding circumstances, or new information of substantial importance comes to light which reveals the project would have one or more new or substantially more severe significant environmental effects not discussed in the certified EIR. A lead agency may choose to prepare a supplement to an EIR, rather than a subsequent EIR, when conditions that require preparation of a subsequent EIR are met, and "only minor additions or changes would be necessary to make the previous EIR adequately apply to the project in the changed situation" (State CEQA Guidelines, 14 CCR Section 15163).

This Supplemental EIR supplements (does not replace) the previously certified ARCF GRR FEIS/FEIR and addresses project modifications, changed circumstances, and new information that could not have been known with the exercise of reasonable diligence at the time the prior document was certified, as required under State CEQA Guidelines (14 CCR Section 15163).

The purpose of this Supplemental EIR is to provide the additional information necessary to make the previous EIR adequate for the project as modified. Accordingly, pursuant to the State CEQA Guidelines (14 CCR Section 15163), the Supplemental EIR need contain only the information necessary to analyze the project modifications, changed

circumstances, and new information that triggered the need for additional environmental review. This Supplemental EIR is intended to:

- address new or substantially more severe significant environmental effects related to any project modifications;
- recommend mitigation measures to avoid any new or substantially more severe significant environmental effects or reduce them to a less-than-significant level;
- update impact analysis and mitigation measures where conditions have changed since the publication of the ARCF GRR FEIS/FEIR;
- provide minor additions and changes to the ARCF GRR FEIS/FEIR warranting a Supplemental EIR for the following reasons:
  - there would be no new potentially significant and unavoidable or significant and unavoidable impacts from the Proposed Action;
  - the few new impacts from the Proposed Action can be mitigated to a less-than-significant level with implementation of measures identified in Chapter 3 of this Supplemental EIR, *Environmental Setting, Impacts, and Mitigation Measures*; and
  - applicable measures in the existing Mitigation Monitoring and Reporting Program continue to apply to the Proposed Action.

The analysis in this Supplemental EIR focuses on project modifications and refinements, and details that were not analyzed in the ARCF GRR FEIS/FEIR, including staging areas, haul routes, stockpile sites, and more detailed cultural resources information, which constitute the Proposed Action for this Supplemental EIR. Each topic section includes a discussion of those issues and impacts that were not considered in the ARCF GRR FEIS/FEIR. This Supplemental EIR has been prepared in accordance with the requirements of CEQA for supplemental environmental documents.

1.7 Decision Needed

As the CEQA lead agency, the CVFPB will review and consider the information presented in this Supplemental EIR, evaluate comments received after dissemination of this Supplemental EIR, respond to those comments, and examine the entire administrative record (including the administrative record for the ARCF GRR FEIS/FEIR), when determining whether to approve the proposed project modifications. The ARCF GRR FEIS/FEIR analyzed many elements of the Proposed Action levee reconstruction work, including bank protection and launchable rock trench features. The CVFPB must decide whether to certify the Supplemental EIR under CEQA.

This Supplemental EIR is also intended to be used by SAFCA, DWR, the Central Valley Regional Water Quality Control Board, (RWQCB) and the California State Lands Commission (SLC) as responsible agencies under CEQA. DWR and SAFCA are non-

federal partners to the project and will provide project funds and oversight. A Water Quality Certification under Section 401 of the Clean Water Act will be required, and RWQCB will consider this Supplemental EIR prior to issuing the certification. A State Lands Commission lease may be required prior to constructing and maintaining the project, in which case SLC will consider this Supplemental EIR prior to issuing the lease.

CHAPTER 2
Alternatives

2.1 Introduction

The ARCF GRR FEIS/FEIR previously analyzed the following alternatives: the No Action/No Project Alternative and two action alternatives. The action alternatives considered were similar except that one alternative included widening of the Sacramento Weir and Bypass (Alternative 2). The ARCF GRR FEIS/FEIR found Alternative 2 to be the preferred alternative. This chapter describes the No Action/No Project alternative and the Proposed Action, which consists of previously unanalyzed improvements and related actions to be undertaken within a section of levee along the left bank[1] of the Lower American River (LAR). The Proposed Action levee section described in this chapter extends from River Mile[2] (RM) 3.8 to RM 4.2 and includes design and construction details not previously described in the ARCF GRR FEIS/FEIR.

2.2 No Action/No Project Alternative

The CVFPB is required to consider No Project as one of the alternatives for consideration to comply with the requirements of CEQA. The CEQA No Project Alternative assumes that the project analyzed in the ARCF GRR FEIS/FEIR has not been constructed. Therefore, with the No Project Alternative, it is assumed that no additional features would be implemented by the Federal Government or State and local interests to achieve the project purpose, over and above those elements of the authorized ARCF Project and subsequent approved and certified supplemental EIRs. Under the No Project alternative, the CVFPB would not conduct any additional work to address seepage, slope stability, overtopping, or erosion concerns in the Sacramento metropolitan area. The local maintaining agency (LMA) would address vegetation and encroachments over time under the System-Wide Improvement Framework agreement, which would improve the condition of the levee system, but it would be speculative to assume that any additional work would be conducted to address the seepage, slope stability, overtopping, or erosion concerns in the project area.

Therefore, the CEQA No Project Alternative in the ARCF GRR FEIS/FEIR is incorporated by reference in this EIR.

1 Riverbanks are designated as left (L) or right (R) when facing downstream.

2 River miles are measured from the confluence of the American and Sacramento River at 0 and increase going upstream.

2.3 Proposed Action

The ARCF GRR FEIS/FEIR identified areas within the LAR that require improvements to address ongoing erosion to prevent levee failure. There are two erosion protection measures that were proposed and approved for the American River levees in the ARCF GRR FEIS/FEIR: (1) bank protection; and (2) launchable rock[3] trenches. Terminology used to describe specific features of the levees is shown on **Figure 2-1**.

The levee reach of the LAR analyzed in the ARCF GRR FEIS/FEIR was subdivided into four subreaches for the purpose of erosion analysis, as shown in **Figure 2-2**. The Proposed Action evaluated in this Supplemental Draft EIR consists of implementing measures within Subreach 1, between LAR RM 3.8 and 4.2 (otherwise referred to in this Draft Supplemental EIR as Site 1-1), to prevent erosion, which, if unaddressed, could potentially undermine the levee foundation causing it to fail. This levee segment was identified by the Technical Resource Advisory Committee (TRAC) and Bank Protection Working Group (BPWG) as having a high risk of failure among the LAR Subreaches during high-flow events due to erosion. The Proposed Action includes the erosion protection measures proposed and approved for the American River levees in the ARCF GRR FEIS/FEIR and includes specific locations and design of the proposed erosion protection improvements, construction staging areas, haul routes, stockpile locations, and other details not previously described or identified in the ARCF GRR FEIS/FEIR. The locations of the elements of the Proposed Action are shown on **Figure 2-3**. The Proposed Action is described below in Sections 2.3.2 to 2.3.6, which provide details of proposed design elements, construction considerations, and schedules for each of the components summarized here.

2.3.1 Design Objectives

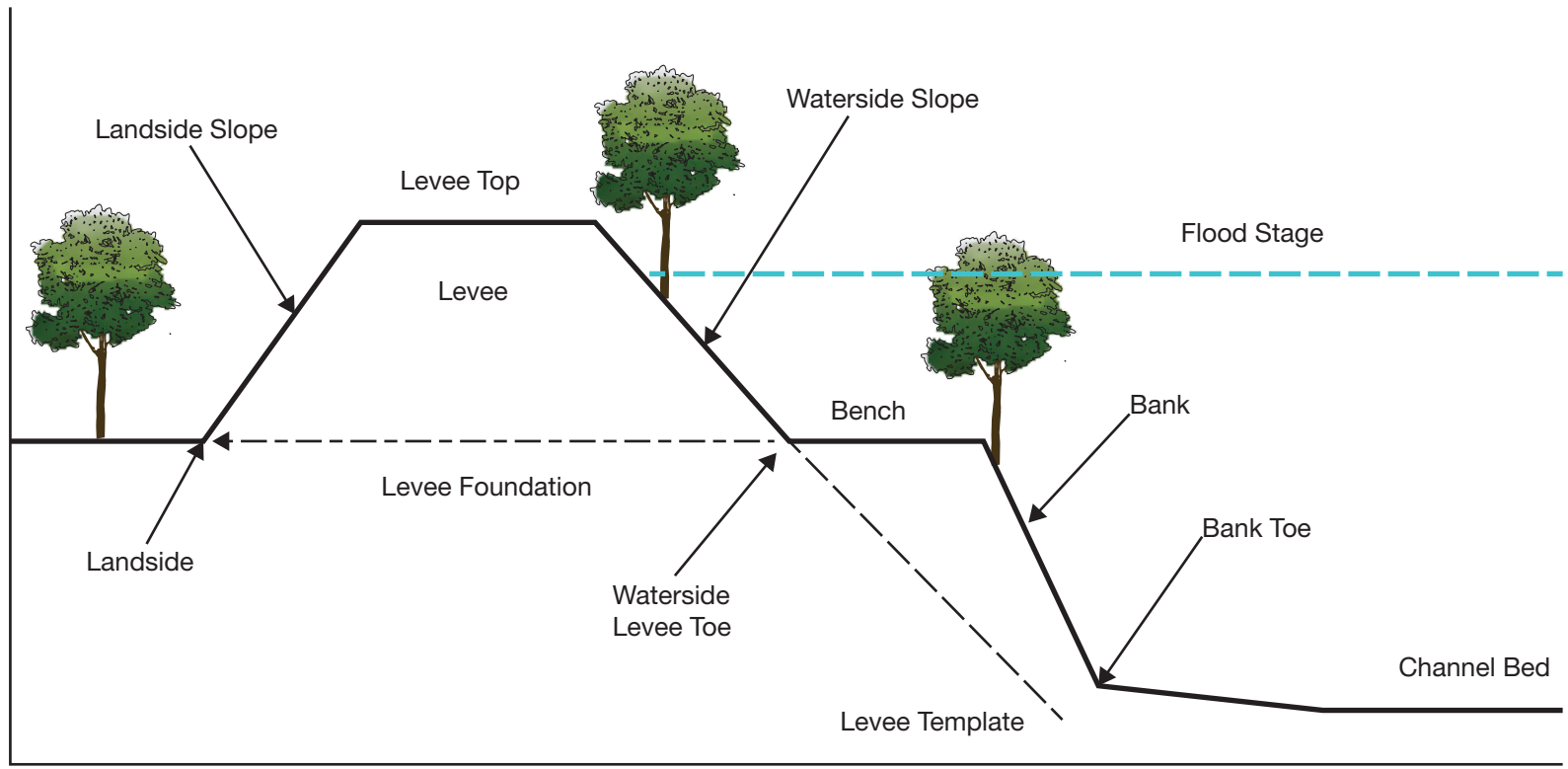
The design objectives included in the ARCF GRR FEIS/FEIR (pages 7 to 13) are incorporated by reference. Additional design objectives for the Proposed Action include:

Hydraulic Capacity: The Proposed Action must avoid or offset hydraulic impacts in order not to increase the risk of levee overtopping.

Environmental Resource Impacts: Although impacts on resources would be avoided where possible, short-term impacts due to construction are considered unavoidable. To compensate for unavoidable impacts on-site, the elements of the Proposed Action have been designed to improve the overall long-term on-site resource conditions, where feasible.

However, off-site mitigation may still be required and could provide substantial opportunities to improve overall ecosystem values along the LAR.

[3] Launchable rock is a term used to describe a type of rock revetment design typically used for locations where it is impractical to install revetment to the maximum predicted scour elevation. The launchable rock is placed as a thick blanket at the toe or bed of the river with adequate volume such that when scour occurs below the blanket, the rock will launch into the eroded area and arrest the progression of bank erosion.



Note: Not to scale, for illustrative purposes only

SOURCE: USACE

ARCF 2016 American River Contract 3A

Figure 2-1
Levee Terminology

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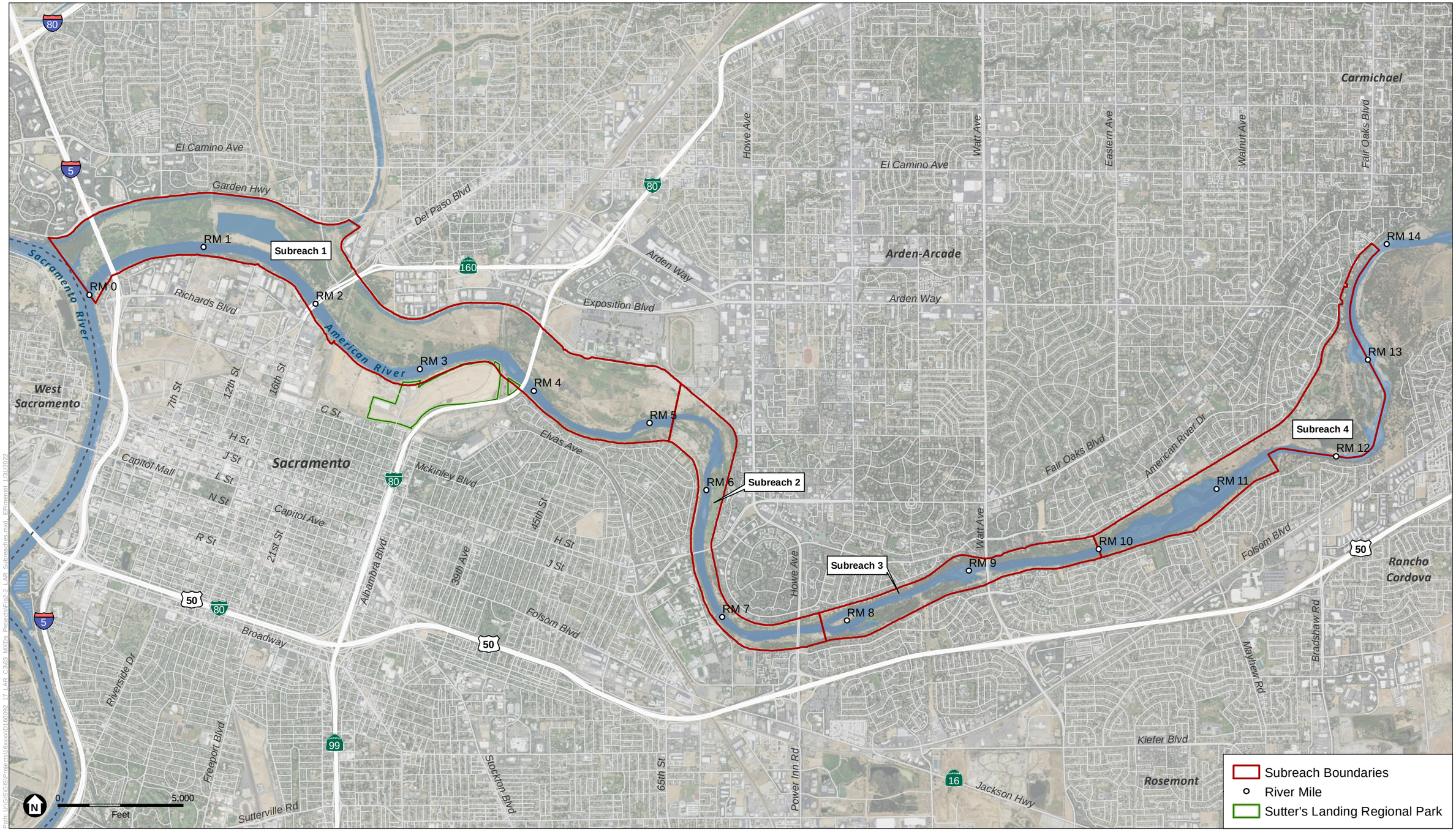

SOURCE: USDA, 2018; NHC, 2021; ESA, 2022

ARCF 2016 American Rivert Contract 3A

Figure 2-2
Lower American River Subreaches

ESA

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SOURCE: Esri, 2021; USDA, 2018; ESA, 2022

ARCF 2016 American River Contract 3A

Figure 2-3
Project Area

ESA

Aesthetics and Recreation: The American River Parkway Plan, consistent with the State and Federal Wild and Scenic Rivers Acts, specifies that erosion control projects should include a revegetation program that screens the project from public view, provides for a naturalistic appearance of the site, and restores affected habitat values.

Infrastructure: Impacts to roadway and major utility infrastructure would be minimized to the extent practicable. Impacts to American River Parkway (interchangeable with Parkway in this Supplemental EIR) infrastructure would also be minimized.

Biological Opinion Requirements: Both the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (USFWS) issued Biological Opinions (BOs) in 2015 for the ARCF GRR EIS/EIR. Both BOs include Conservation Measures, Reasonable and Prudent Measures, and Terms and Conditions.

The potential effects of the Proposed Action on the species and/or their critical habitat originally covered in the BOs have been re-evaluated based on updated designs to ensure all aspects of the Proposed Action would not jeopardize the continued existence of species or adversely modify critical habitat. The USFWS BO was issued in March 2021 and the NMFS BO was issued in May 2021. Both BOs concluded that the Proposed Action would not jeopardize the continued existence of species or adversely modify critical habitat.

2.3.2 Site 1-1 Erosion Protection Description

Site 1-1 is located on the left bank of the LAR between LAR RM 3.8 and 4.2 (approximately 3,000 linear feet) and is divided into two segments; one segment extends from LAR RM 3.8 to 3.9, downstream of the Interstate 80 Business (I-80 or Capital City Freeway); and one segment that extends from LAR RM 3.9 to 4.2 underneath and upstream of the Capital City Freeway. Site 1-1 is in a section of the LAR where a sand bed substrate and Sacramento River backwater and tidal effects are more prominent in comparison to the upstream areas of the LAR. These conditions have the potential to result in future scour and erosion at the levee toe and embankment. The designs for Site 1-1 include a combination of planting benches with a launchable rock toe, a rock blanket, regrading of the riverbank, and include riverbank and levee embankment revetment protection. These design elements are described in the following sections.

2.3.2.1 Planting Bench with Launchable Rock Toe and Buried Rock

The Proposed Action would construct a launchable rock toe to protect against toe scour. The launchable rock toe is designed to “launch” once erosion of the channel bottom progresses during a flood event to the toe of the rock. This launched layer of riprap is designed so that it would cover the eroded surface of the new channel bottom and inhibit further progression of the eroded slope. Once fully launched a layer of riprap would extend from the channel toe to the maximum depth of scour predicted in the river channel.

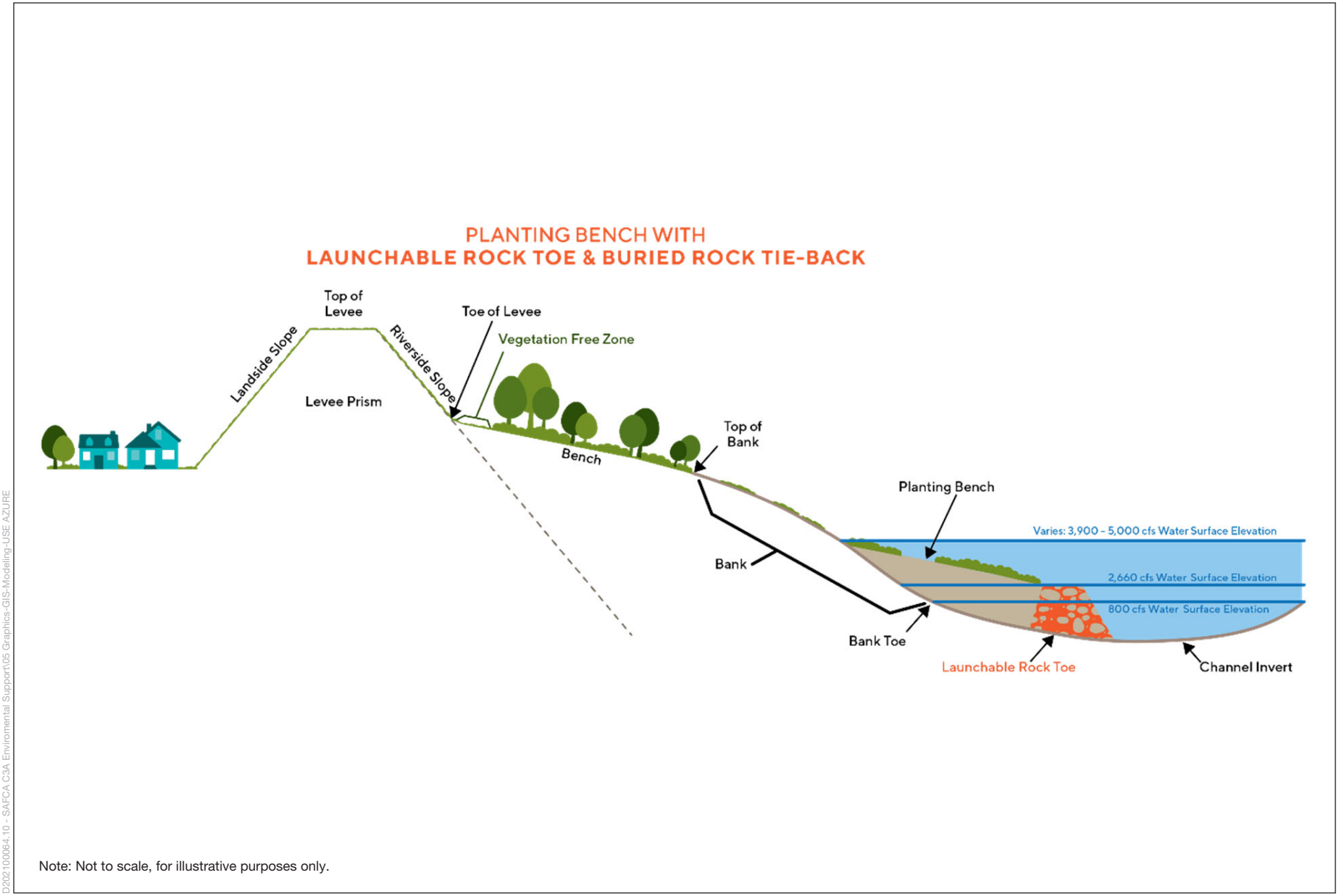
The launchable rock toe would be placed where possible to allow the creation of a plantable soil filled bench to provide aquatic and terrestrial habitat at a variety of flow

conditions. The target width of the planting bench would be 40 feet wide. Where planting benches are included, this feature has a waterside elevation for the top of the launchable rock toe that varies approximately from the 800 cubic feet per second (cfs) water surface elevation (WSE) to the 2,660 cfs WSE (mean summer low and normal flows, respectively). The upper elevations of the planting bench roughly corresponds to the 5,000 cfs WSE. The design elevations were based on site topographic measurements of the approximate vegetation elevation in Site 1-1. The planting bench generally ranges in elevation from 6.3 to 14.5 feet above mean sea level. The top of the landside planting bench would provide more woody vegetation, in particular large canopy trees, closer to the edge of the launchable rock toe and, therefore, provide more shaded riverine aquatic habitat. The design of the levee profile used the modelled 2,660 WSE elevation that ranges from around 7 to 17.5 feet, with the median WSE at 11.5 feet. The low point of the waterside top of the launchable rock toe would be at the median 800 cfs flow elevation. This would create shallow submerged habitat during most of the year, and would place much of the launchable rock toe below water levels most of the year, thereby reducing the amount of visible rock. The portions of the bench between the 800 cfs and 2,660 cfs flows would form aquatic habitat with a soil/sand substrate within these flow rates. The slope of the launchable rock toe would generally be no steeper than 1 vertical to 2 horizontal (1V:2H) with a top width of four feet.

The design of Site 1-1 includes tie-backs that are irregularly spaced at a maximum of approximately 250 feet apart to a minimum of approximately 105 feet apart. The tie-backs would help to limit the erosion extents and subsequent damage to a planting bench during a launching event. See **Figure 2-4** for an illustration of typical planting bench and launchable rock toe and buried rock features.

2.3.2.2 Soil-Filled Levee Embankment and Riverbank Revetment

Levee embankment soil-filled revetment includes a layer of riprap that is filled with soil at a 70 to 30 ratio (70-percent riprap/30-percent soil). This soil to riprap ratio is reflective of successful designs which have been used in the Sacramento area. The riprap is sized to remain stable during the 160,000 cfs and 192,000 cfs design flow events and provide erosion protection to the levee prism. Levee embankment soil filled revetment is required by the design in areas with applied velocities and shear stresses exceeding critical values for the levee surface material (e.g., grass on the levee slope). The top of the revetment is set at the elevation of non-erosive velocity/shear stress for the 160,000 cfs flow event. The slope of the soil filled levee embankment rock varies and is generally not steeper than 2.5H:1V. Post construction, the soil-filled revetment would be covered with one foot of soil and stabilized with native vegetation suited for the elevations at which the revetment occurs and would include woody riparian plantings at the elevations below the ordinary high water mark (OHWM), valley oak dominated forest above the OHWM, and native grasses in the vegetation free zone. The portion of revetment under the I-80 Bridge would be 100-percent rock without soil. See **Figure 2-5** for a typical cross section diagram of the soil-filled levee embankment revetment.



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SOURCE: USACE

ARCF 2016 American River Contract 3A

Figure 2-4
Typical Cross Section Diagram of Planting Bench and Launchable Rock Toe and Buried Rock

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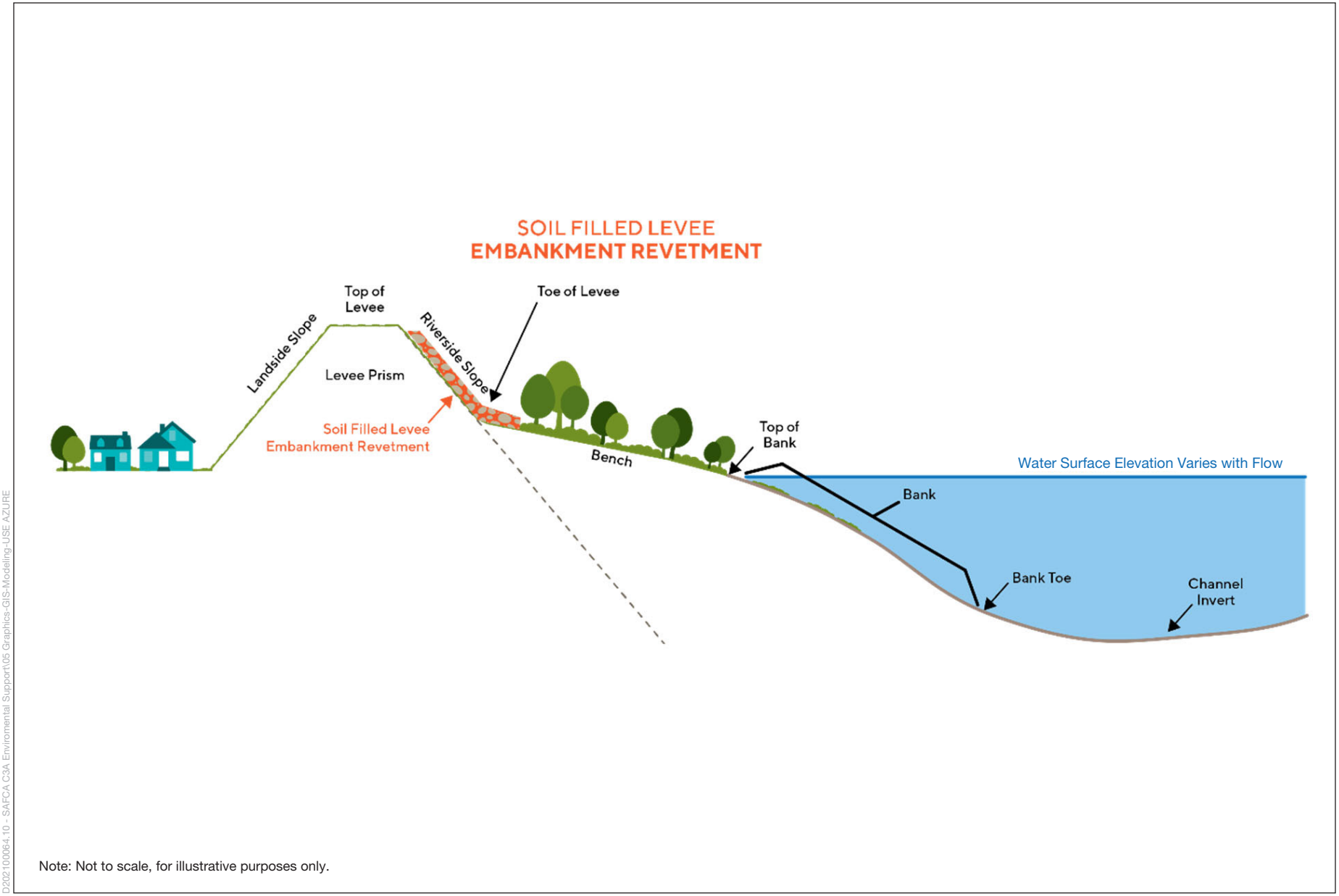

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SOURCE: USACE

ARCF 2016 American River Contract 3A

Figure 2-5
Typical Cross Section Diagram of Soil-filled Levee Embankment Revetment

2.3.2.3 Site 1-1 Downstream Segment Design

The primary erosion risk along Site 1-1 is an erodible bank susceptible to toe scour. The primary features of the segment include a launchable rock toe, planting bench, embankment cut and levee embankment revetment. See **Figure 2-6** for the location of the work areas at Site 1-1, including staging areas and temporary construction access ramps. See **Figure 2-7** and **Figure 2-8** for typical cross section and plan views, respectively, of the launchable rock toe design and levee bank design at the downstream segment of Site 1-1.

The launchable rock toe is designed as noted in Section 2.3.2.1 with a 4-foot top width, 1V:2H side slopes, a minimum height of 5 feet, and a variable top elevation. The top of the planting bench would tie into the revetment and would act as the toe of the embankment cut. The planting bench would be approximately 40 feet wide. The embankment cut would regrade the existing slope from the toe to a slope of 1V:2.5H. A layer of soil filled rock revetment would be placed on the regraded riverbank slope from the top of the bank down to the launchable rock toe at the median WSE of 11.6 feet above mean sea level. Below this elevation, only clean rock would be placed. The soil filled rock revetment would be composed of a 24-inch thick layer of soil filled rock with 12-inches of soil fill placed along the top of the rock layer to allow for the establishment of vegetation which would occur after construction.

The riverbank revetment would end at LAR RM 3.8 and tie into the existing revetment at a slope of 1V:2.5H. The slope would include soil filled riprap above the normal water surface. The launchable rock toe protection would protect the toe of the bankline from erosion and scour (lowering of the channel bed and existing ground) that could continue to over-steepen the existing grade of the bank and induce failure of the levee. The alignment of the launchable rock toe protection was designed to allow for fill to be placed along a section of over-steepened bank. The launchable rock toe would run continuously along the waterside edge of Site 1-1. Coir fabric erosion control blankets would be installed over the seeded topsoil. In the spring following the rockwork installation the revetment would be planted with native plants. Instream woody material (IWM) would be installed on the landside of the launchable rock toe to provide habitat for juvenile salmonids.

2.3.2.4 Site 1-1 Upstream Segment Design

The primary features in the upstream segment of Site 1-1 include a launchable rock toe, rock blanket, planting bench and riverbank revetment. This section is located from the I-80 Bridge upstream to LAR RM 4.2. The launchable rock toe under the I-80 Bridge is designed with a 4-foot top width, 1V:2H side slopes, a minimum height of 6.7 feet, with a top elevation approximately at the WSE below the 2,660 cfs (mean summer flow). The top of the launchable rock toe is to be used as the toe of the rock blanket. The rock blanket would be constructed with a slope of 1V:11H. The base of the rock blanket would be installed on top of the launchable rock toe and is the extension of the riverbank revetment design as it ties into the launchable rock toe at a slope of 1V:3H. The riverbank revetment would be constructed at grade with a maximum slope of 1V:2.5H. Where the existing bank is steeper than 1V:2.5H, acceptable material fill would be used to build up

the existing bank to the design slope of 1V:2.5H. The riverbank revetment would be composed of a 24-inch layer of riprap that meets Federal Highway Administration (FHWA) Class I requirements. A typical plan and cross-sectional view of these features is shown on **Figure 2-9** and **Figure 2-10** described below in detail.

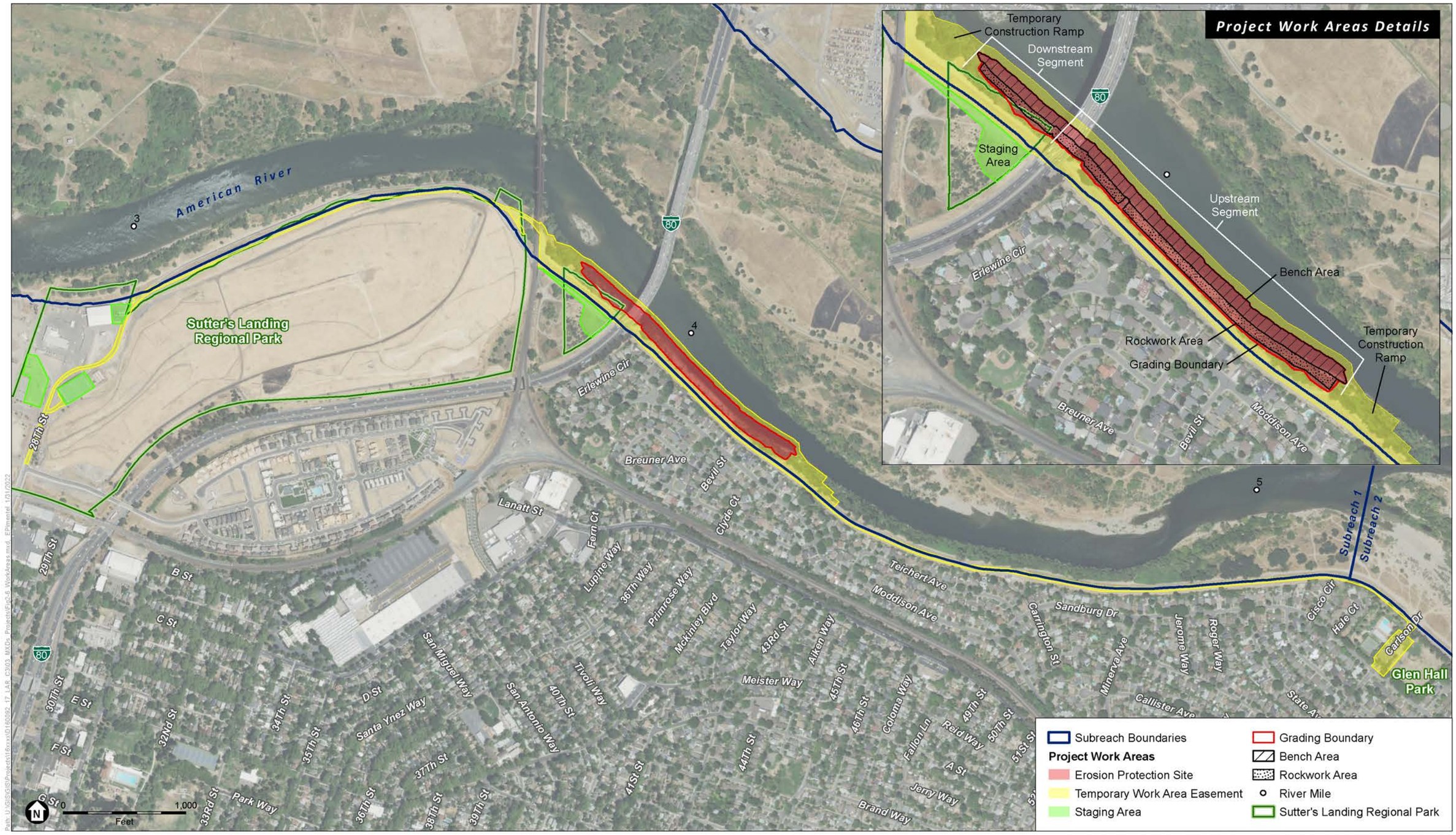
From the upstream edge of the I-80 Bridge, the launchable rock toe is designed with a 4-foot top width, 1V:2H side slopes, riprap meeting FHWA Class I requirements, and a variable top elevation approximately at the WSEs equal to 800 cfs (low summer flow) and 2,660 cfs (mean summer flow). The top of the launchable rock toe in this reach upstream of the I-80 Bridge would be used as the toe of the planting bench, and the variation in the top elevation of the launchable rock toe would create a variable slope in the planting bench. The planting bench is designed to have an average width of 40 feet.

The levee embankment revetment would be constructed at grade, with a maximum slope of 1V:2.5H composed of a 24-inch soil filled rock layer and a 12-inch soil fill layer. The 24-inch layer of soil filled rock placed on the embankment would continue down the bank to the launchable rock toe to an elevation of 11.60 feet above mean sea level, below which clean rock would be installed. Soil fill would be placed above the soil filled rock layer to the design grade elevation and would be planted after construction. Coir fabric erosion control blankets would be installed over the seeded topsoil. IWM would be installed after completion of the seeding and erosion blanket installation above the landside of the launchable rock toe to provide habitat for juvenile salmonids. and A one-foot layer of soil would be installed on the soil filled rock slope to 33 feet above mean sea level. Willow pole cuttings would also be planted in the bench by the rockwork construction contractor after completion of seeding, erosion blanket installation and IWM installation. The willow cuttings would be placed in the area of the bench closest to the water edge, in the gaps between the IWM and along the landside edge of the IWM. In the spring following the rockwork installation the revetment would be planted with native plants.

2.3.2.5 Design Around Stormwater Outfalls

Three utilities exist within Site 1-1: the Elvas Pump Station outfall pipe; the I-80 Bridge runoff pipe; and a City of Sacramento force main outfall and headwall. The Elvas Pump Station outfall pipe is located just downstream of the I-80 Bridge and runs beneath the existing levee prism. The pump station is owned and maintained by Caltrans. An existing pipe network under the I-80 Bridge drains into the Elvas Pump Station that pumps stormwater to the existing rock channel and outfall into the American River.

A 4-foot wide flat bottom ditch would be installed below the Elvas Pump Station outfall. The ditch would be composed of FHWA Class II riprap, with a minimum 3-foot riprap thickness and 9-inch bedding layer. The ditch would have a 10-percent slope extending the ditch to tie in with the rock riverbank revetment. The rock riverbank revetment design would be placed at grade above the I-80 runoff pipe and would tie into existing grade at a slope of 1V:2.5H, wrapping around the existing I-80 outfall design. The revetment design would tie into the existing grade prior to the I-80 outfall structure and runoff pipe to not alter or disrupt service of the outfall.

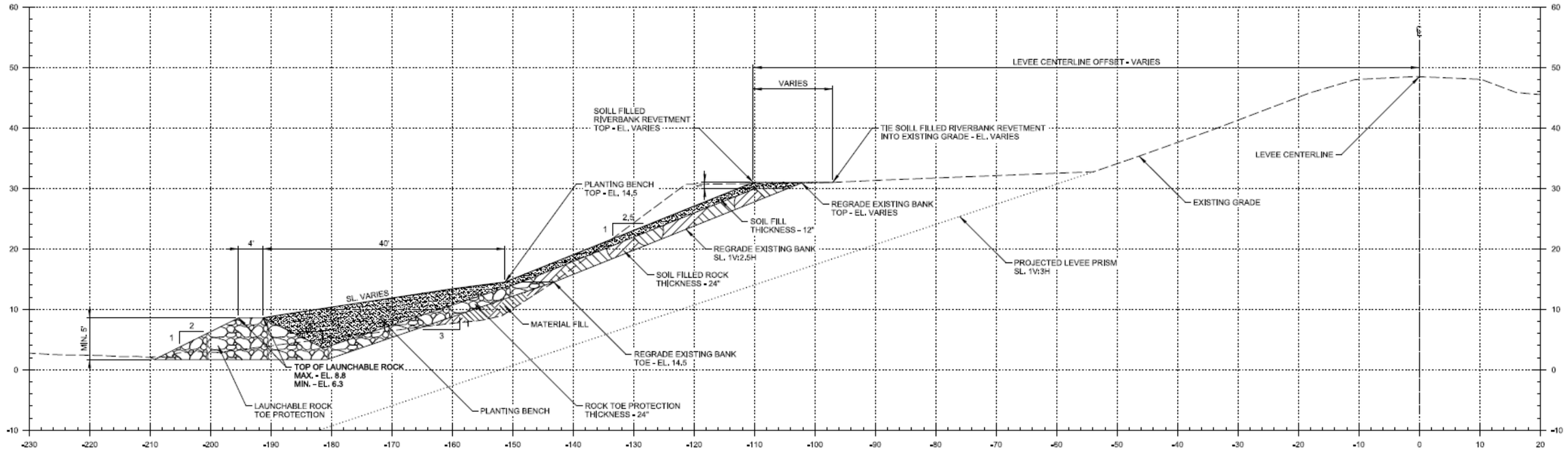


SOURCE: Esri, 2021; USDA, 2018; ESA, 2022

ARCF 2016 American River Contract 3A

Figure 2-6
Work Areas

ESA



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SOURCE: USACE

ARCF 2016 American River Contract 3A

Figure 2-7
Typical Cross Section View of Site 1-1 Downstream Design Components

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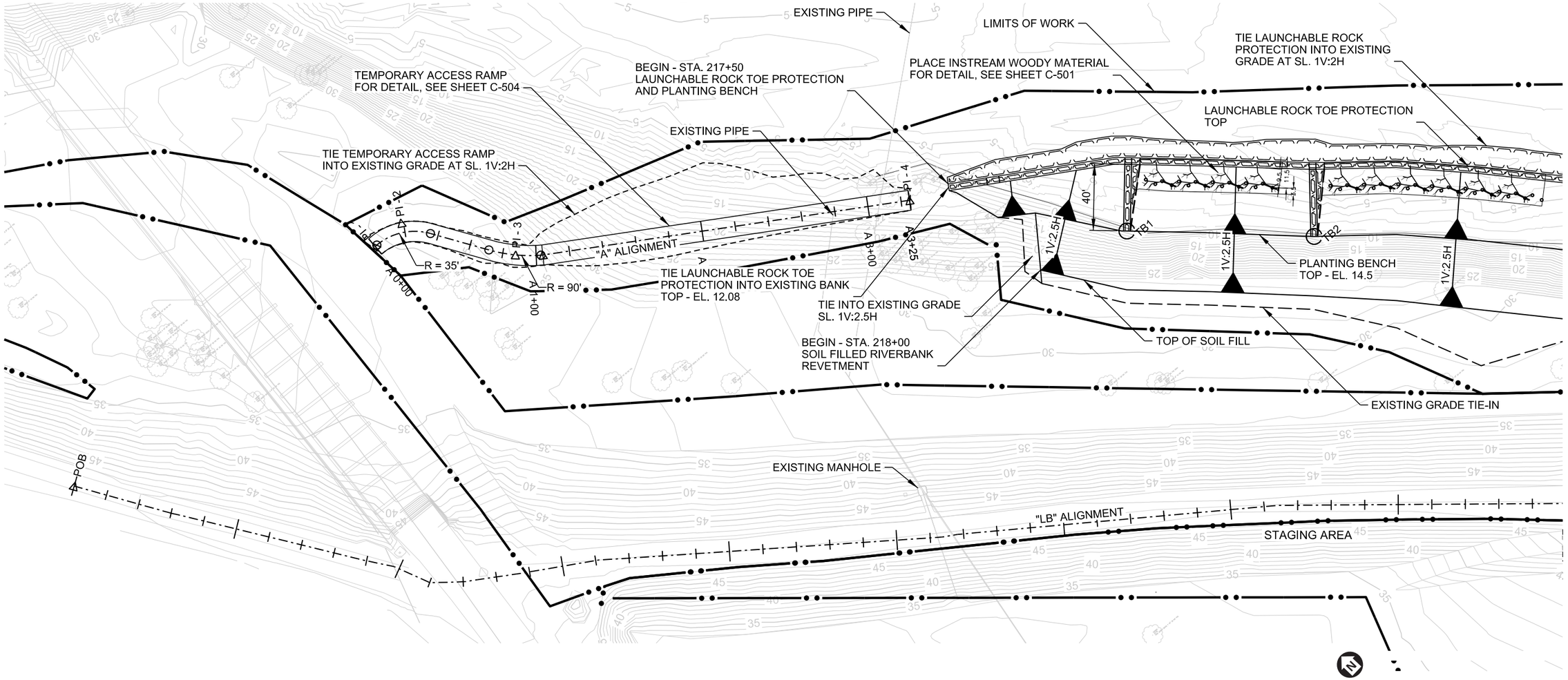


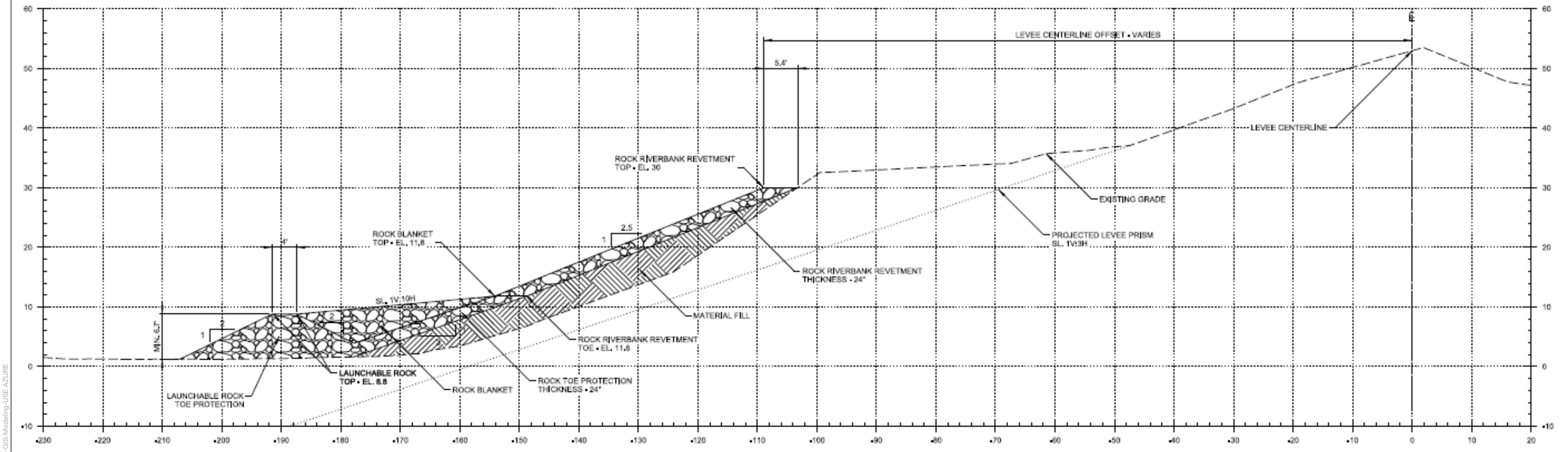
D202100064.10 - SAFCA C3A Environmental Support\05 Graphics-GIS-Modeling-USE AZURE

SOURCE: USACE

ARCF 2016 American River Contract 3A

Figure 2-8
Typical Plan View of Site 1-1 Downstream Design Components

ESA



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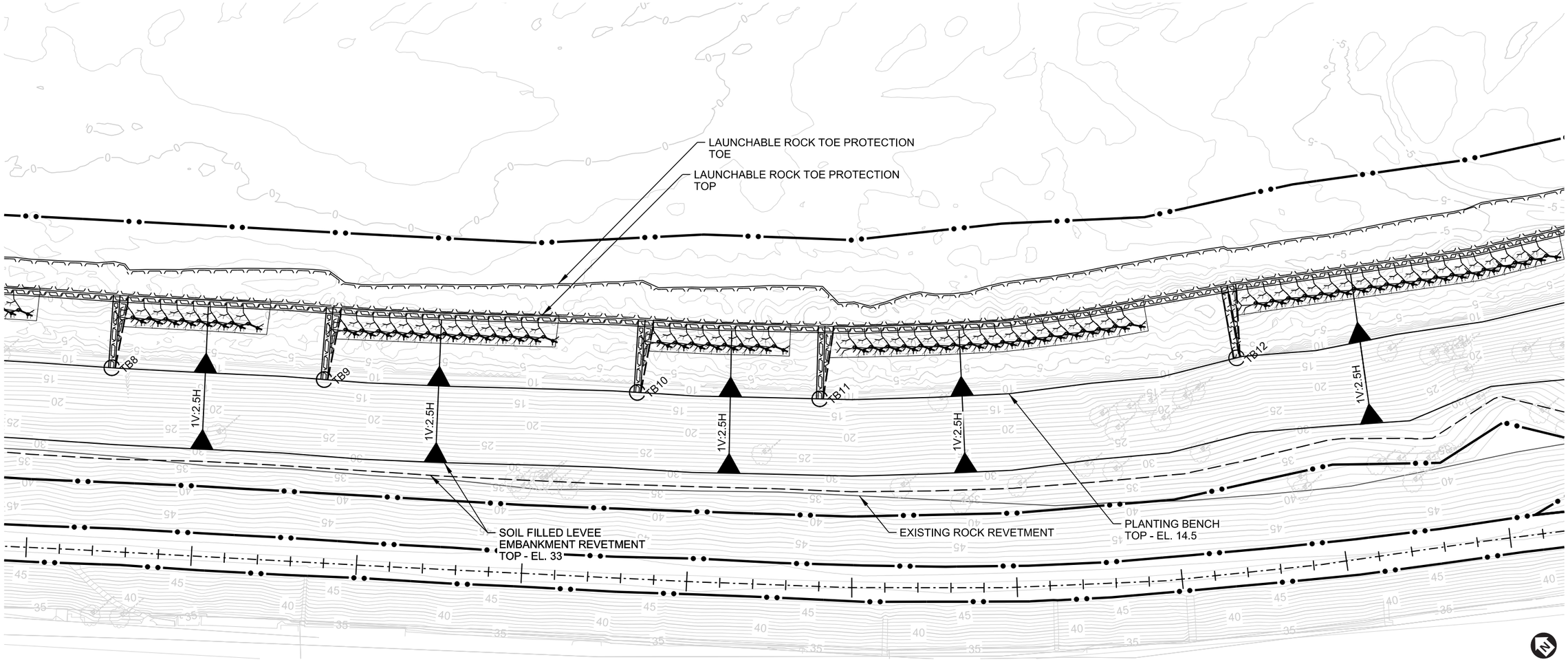
SOURCE: USACE

ARCF 2016 American River Contract 3A

Figure 2-9
Typical Cross Section View of Design Components at Upstream Segment of Site 1-1

ESA



SOURCE: USACE

ARCF 2016 American River Contract 3A

Figure 2-10
Typical Plan View of Design Components at Upstream Segment of Site 1-1

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The City of Sacramento force main is located approximately 200 feet upstream of the I-80 Bridge. The force main is a 66-inch diameter steel pipe and headwall with a flap gate. The Proposed Action would wrap the levee embankment revetment around the existing force main headwall. A rock apron would also be installed at the force main outfall along with the launchable rock toe protection. The rock apron would be composed of FHWA Class VI riprap, with a minimum 4.5-foot riprap thickness and 1.25-foot bedding layer. The rock apron's initial width would be approximately 11 feet and would taper out to a 35-foot width after a length of 30 feet. The rock apron would tie into the launchable rock toe protection. Due to the outfall velocities, FHWA Class VI riprap would be used for the launchable rock toe at this location.

2.3.2.6 Instream Woody Material

Along the lower bench of Site 1-1, IWM structures consisting of whole trees with rootwads intact would be installed to increase the roughness of the bench and to provide fine-textured woody material along the river margin for juvenile salmonid rearing habitat at an elevation of the low flow period between August and December (approximately between the 2,660 cfs WSE to 800 cfs WSE). The trees used for IWM installation would be orchard trees approximately 20 to 30 feet in height with trunk diameters between 10 and 20 inches. The IWM trees would be arranged in a linear fashion along the bench at the launchable rock toe, encompassing approximately 80 percent of the shoreline between the rock tie backs. This placement is intended to maximize the use of the plantable portions of the bench for planting of native riparian forest vegetation. Additionally, the IWM is designed to reduce hazards to boaters and swimmers by angling the branches in the downstream direction to the greatest extent feasible. This would reduce the chance of swimmers, rafters or boaters being caught on the IWM. The IWM would use metal or wooden anchors buried in the bench soil to hold the structures in place. The anchors would be 3.5-foot square plates with half-inch diameter steel cables extending up to just below the bench surface terminating in cable eyes. From the buried cable eyes, 5/8-inch diameter manila rope would loop over the trunks of the whole trees to secure them. IWM trees are expected to function for a minimum of approximately 3 years while the newly planted vegetation becomes established on the lower bench.

2.3.3 Onsite Mitigation

2.3.3.1 Onsite Mitigation Design

Erosion protection features would require clearing of vegetation for earthwork and placement of revetment resulting in loss of terrestrial and aquatic habitat. The Proposed Action habitat mitigation would be completed through elderberry transplants, onsite plantings and additional offsite compensatory mitigation primarily for habitat impacts on valley elderberry longhorn beetle (VELB), salmonids, and yellow-billed cuckoo. Elderberries removed from the project site would be transplanted elsewhere in the Parkway, to the extent practicable, at designated existing mitigation sites analyzed, approved, and certified under previous Supplemental EIRs completed under the ARCF GRR FEIS/FEIR for Contracts 1 and 2. The transplants would occur at the same time as

the vegetation removal so that the elderberries would not be damaged because of the vegetation removal. In addition to transplanting elderberry shrubs, compensatory mitigation for the loss of habitat for VELB would be required at a 3:1 ratio at the offsite mitigation site(s), which could include existing mitigation bank(s) and/or mitigation sites outside the Parkway.

Mitigation from impacts on salmonid and riparian habitats would be made partially onsite with planting areas at appropriate WSEs and as space allows. Therefore, planting areas would be sized based on site-specific constraints and design performance of erosion protection measures with the goal of maximizing the amount of on-site mitigation within the erosion protection design at Site 1-1. The planting benches were designed to provide a minimum 40 feet width where feasible to provide sufficient width and soil volume to support vegetation growth and create tree canopy to provide shade and habitat values to replace the habitat lost onsite to the construction of the erosion protection measures. Because mitigation ratios are higher than 1:1, it is not possible to mitigate for all impacts of the Proposed Action on site. Impacts that are not mitigated for on site would be mitigated at offsite mitigation sites and/or through conservation bank credits.

At Site 1-1, the embankment behind the launchable rock toe would be protected with soil filled riverbank revetment. The planting bench and riverbank soil filled revetment form a riprap trough filled with soil. Rock tie-backs oriented perpendicular to the river flow are located periodically at a varying spacing along the bench. The rock tie backs would extend from the launchable rock toe to the rip rap placed on the riverbank on the landside of the bench. The rock tiebacks would serve to limit loss of planting bench soil should high flows initiate erosion of the planting bench soil. The rock tie-backs would form the high point of the planting bench. The tie-backs slope down from the landside edge of the planting bench to the high point of the top of the launchable rock toe.

The overall objectives of the planting bench are to provide habitat and minimize visible rock revetment. The waterside top of the launchable rock berm would vary in elevation with a high point coinciding with the location of the rock tiebacks. This is set at approximately the 2,660 cfs WSE, which is the approximate elevation of the vegetation line along the LAR. The 2,660 cfs WSE is the typical flow rate expected at the time of construction. Emergent aquatic plant communities are frequently found in areas where the 2,660 cfs WSE intercepts shallow slopes with soil substrates. The low point of the waterside top of the launchable rock toe is set at approximately the 800 cfs WSE. This would create shallow submerged habitat during many times of the year, and also places much of the launchable rock toe below water most of the year, and reducing the amount of visible rock. The portions of the bench between the 800 and 2,660 cfs WSEs would form aquatic habitat with a soil/sand substrate within those flow rates. Additionally, the installation of IWM (previously described) would provide aquatic habitat to compensate for the loss of salmonid habitat.

The Proposed Action would revegetate the erosion protection measures with native vegetation to replace the vegetation removed by the construction of the Proposed Action.

To promote safety to bike path users, a 15-foot wide area adjacent to the bike trail would be planted only with native grasses and forbs. This would also reduce vegetation control maintenance along the bike path. To minimize restrictions on vegetation management methods along the bike path, elderberries would not be planted within 30 feet of the bike path.

2.3.3.2 Planting Elements

Site Preparation

Revegetation of the bank protection features and other areas disturbed by construction activities would include planting of the areas with native plants using live cuttings, nursery grown container plants and seeding. Live cuttings would be installed at the waterside edge of the bench in a 10-foot wide strip along the riverside edge of the planting bench, where not obstructed by IWM. A row of live cuttings would be installed as close to the IWM as possible. Nursery grown container plants would be planted on the planting bench, riverbank revetment and areas disturbed by construction according to the planting designs. See **Figure 2-11** for typical views of IWM and planting bench design components.

Elderberry Transplanting

Elderberry transplants would be taken from Site 1-1 to any of the previously constructed mitigation sites in the LAR, as designed and approved under the Contract 1 and Contract 2 projects. Elderberry transplants would be clustered in groups from 3 to 12 shrubs along the rows. The transplants and associated vegetation would be arranged with existing plantings would group elderberries in larger masses with associated native vegetation interspersed between the elderberry transplants. Also, larger canopy native vegetation would not be located in the elderberry mitigation sites to allow ample solar access to the elderberry transplants. All transplanted elderberry shrubs within the Parkway would be planted a minimum of 30 feet from all trails and roads to prevent future maintenance conflicts. Canopy tree plantings would be arranged to maintain sufficient solar access for maintaining sufficient elderberry growth. Transplanting of the shrubs would be in compliance with the 2017 USFWS guidelines. A wire mesh cage or similar device would be installed in the hole prior to plant installation to protect against gopher browse. Above ground screens and may be installed to aid growth and deter herbivore browsing. The areas between the planting rows would be seeded with native grasses by broadcast, drill, or hydroseeding.

Proposed Planting Mix

The planting mix for onsite would include a number of native riparian and upland plants species, which may include valley oak (*Quercus lobata*), boxelder (*Acer negundo*), Fremont cottonwood (*Populus fremontii*), riparian shrubs, and grasses, and would be consistent with agency guidelines for VELB mitigation[4] and the American River

[4] U.S. Fish and Wildlife Service. 2017. *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle* (*Desmocerus californicus dimorphus*). Sacramento, CA. Available: https://www.fws.gov/sacramento/documents/VELB_Framework.pdf.

Parkway Plan list of approved plants.[5] In general, the planting mixes would target species common to the various native riparian forests, woodlands, and savanna found growing in the American River Parkway.

Irrigation

A temporary irrigation system would be installed for establishment and maintenance period of the transplant and associative plant material. Water pumped from the river edge would be applied by drip or spray irrigation. The irrigation system may be partially or entirely removed for seasonal high-water flows. The pump system and fish screen would conform to the anadromous salmonid passage facility design criteria[4] issued by NMFS in July 2011.[5] The irrigation system would be required to provide the necessary water quantity and frequency to both elderberry transplants and container plants.

Irrigation would be applied at rates and frequencies to maximize plant growth and health. The goal is to provide ample irrigation to depths below the plants root zone, allowing ample water for growth and promoting deep rooting. Watering frequency would decrease as the plants establish; however, the overall volume of water would remain high to provide sufficient water for growth, deep saturation beyond the root zone to continue to promote deep rooting. This irrigation strategy provides for both rapid plant growth and drought tolerance to rooting to maximal depth within the establishment period.

Weed Control

Weed control on erosion control revetments and habitat benches is intended to foster the plantings and any volunteer native vegetation. In general, most volunteer plant growth, with the exception of invasive exotic plants, is beneficial to stabilizing the sites and making them resistant to erosion. Weed control would consist primarily of hand tools, mechanical means (e.g., weed eaters and mowing) on both the soil-filled slope and planting benches timed to foster native grass growth and reduce competition for light from exotic plants with the plantings and any volunteer native vegetation. Spot applications of herbicides registered for use in and near aquatic habitats may be utilized to address particularly invasive exotic species. Additionally, weed control would be necessary to allow continued access to the site for maintenance of browse guards and the irrigation system.

Browse Control

Browse control would be provided by caging individual plants and fencing clusters of plants. Continuous water side beaver fencing that does not provide frequent access points to the river would not be used. At a minimum, access points would be provided every hundred feet. Beaver would be the most problematic source of browse, followed by deer browse. Although smaller animals such as rabbits and voles may browse the onsite mitigation, these species are typically less of a problem to onsite plantings.

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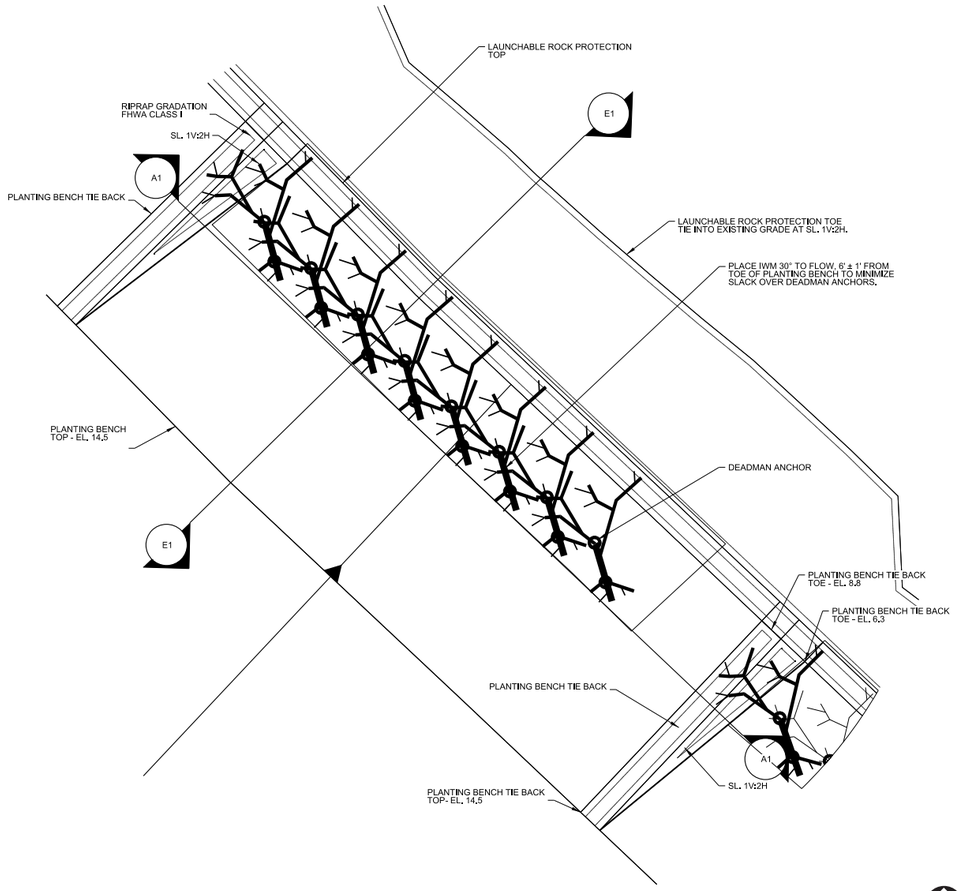
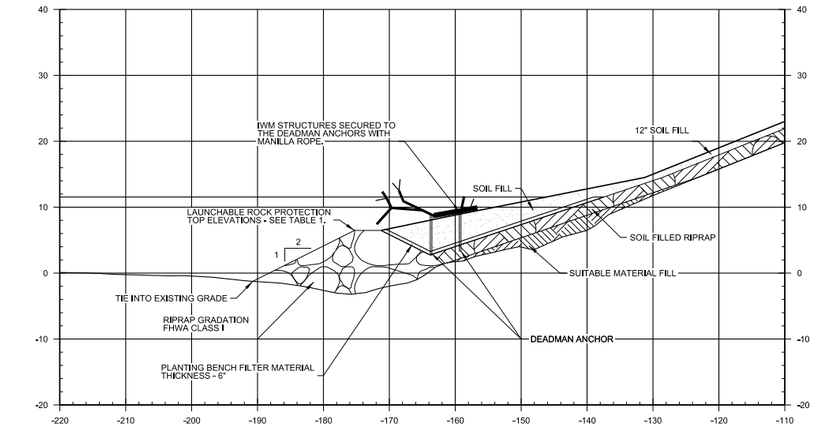
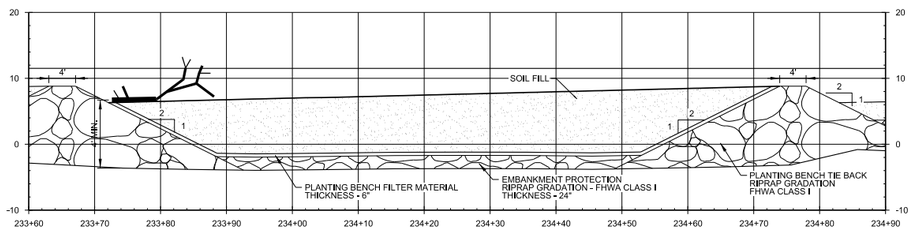
5 County of Sacramento. 2008. *American River Parkway Plan 2008*. p. 16. Terrestrial Resource Policy 3.2.1 Planning and Community Development Department. Available: https://regionalparks.saccounty.net/Parks/Documents/Parks/ARPP06-021909_sm.pdf.



C1 PLAN: PLANTING BENCH
SCALE: 1" = 10'



E1 SECTION: PLANTING BENCH
SCALE: 1" = 10'



A1 PROFILE: PLANTING BENCH
SCALE: 1" = 10'

D202100064.10 - SAFCA C3A Environmental Support\05 Graphics-GIS-Modeling-USE AZURE

SOURCE: USACE

ARCF 2016 American River Contract 3A

Figure 2-11
Typical Views of IWM and Planting Bench Design Components

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Maintenance

Maintenance activities would start immediately following completion of the initial planting. The following activities would be performed throughout the year although some would vary according to weather and season: general clean-up maintenance of the sites would occur throughout the year, clean-up maintenance would generally include picking up trash, vandalism repairs, and the removal of used planting accessories (e.g., bamboo stakes, ties, browse guards). For watering maintenance, crews would connect the pump to the irrigation system for each irrigation cycle per the irrigation schedule shown in **Table 2-1**. Crews would weed within the watering basins of the transplants and within an 18-inch radius of each woody and grass associated plant, so nonnative herbaceous growth would not compete for soil moisture per the schedule in Table 2-1. Maintenance crews would mow weeds to below six inches in height during the growing season. Mowing would conform to the schedule in Table 2-1.

TABLE 2-1
THREE-YEAR MAINTENANCE SCHEDULE FOR ONSITE MITIGATION IN THE AMERICAN RIVER PARKWAY

Monitoring Year	Watering Transplants	Watering Associated Plants	Weeding Transplants and Associates	Tractor Mowing	String Trimmer Mowing
Year 1 (March 15-November 15)	Minimum of 50 gallons of water no more than 1 week apart or as required to maximize growth rates	Minimum of 10 gallons per plant twice a week or as required to maximize growth rates	As needed to keep weeds less than 12" in planting basins	80%	20%
Year 2 (March 15-November 15)		Minimum of 30 gallons per plant every week to 10 days or as required to maximize growth rates	As needed to keep weeds less than 12" in planting basins	60%	40%
Year 3		Minimum of 50 gallons per plant every 10 to 14 days or as required to maximize growth rates	As needed to keep weeds less than 12" in planting basins	40%	60%
Firebreaks	Firebreaks are cleared of weeds and graded once per year				

NOTE:

[1] Adjustments may be made to species if it appears a particular species was not successful on a site
Watering: Years 1 & 2, March 15–November 15 and Year 3, April 1–October 31.
Weeding: Years 1-3: March 1–September 30.
Mowing: Four times per year.

2.3.4 Other Construction Considerations for Site 1-1

2.3.4.1 Site Preparation and Mobilization

Site preparation would begin with trimming and/or removal of vegetation where construction access and activities would occur. Vegetation would be removed between October 2022 and February 2023, before the nesting season of birds (see *Construction Workers and Schedule* section), as feasible. After these activities, mobilization would include the application of temporary best management practices for the control of off-site

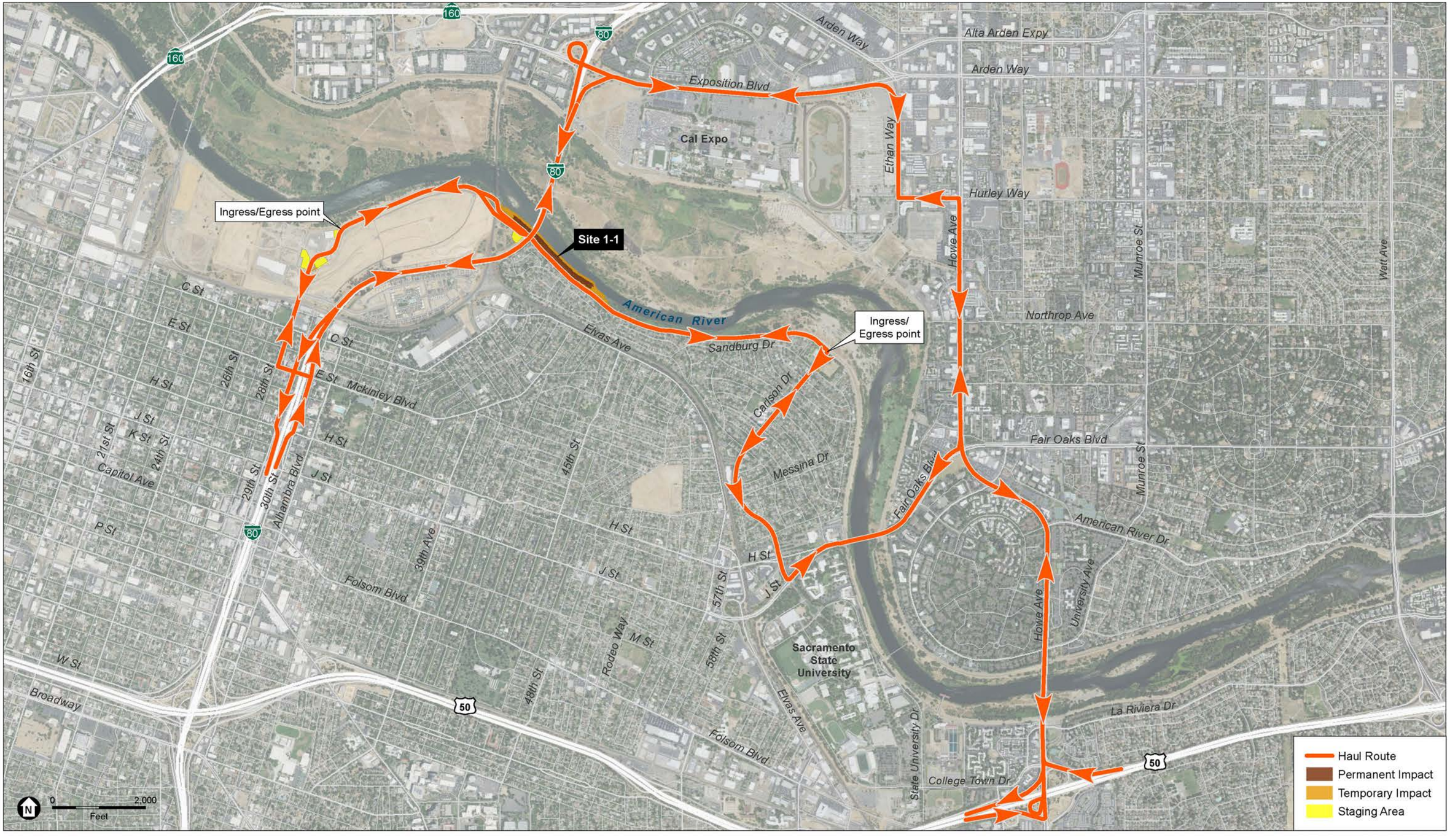
stormwater runoff and sedimentation, building temporary access roads and ramps, preparing staging areas, and installing signage for traffic and alternate transportation routes that would be affected by construction activities (e.g., bicycle routes).

Vegetation clearing could be needed to allow for site access and to accommodate construction activities. Site preparation could also include the removal of submerged instream woody debris and fallen trees within the construction footprint. A turbidity curtain or other minimization measures approved by NMFS and USFWS would be installed prior to any in-water work conducted on the waterside of the levee. The work limits and staging areas would be fenced with orange construction fencing to protect sensitive habitat and to identify disturbance area limits. In addition, 6-foot tall temporary chain-link security fencing would be installed around staging areas and along the access routes within the sites. The Site 1-1 proposed erosion improvements coincide with planned improvements by California Department of Transportation (Caltrans) and the City of Sacramento. Coordination with Caltrans and the City is currently underway to prevent conflicts during site preparation and construction activities.

2.3.4.2 Site Access, Haul Routes, and Staging Areas

Haul routes for riprap, bedding, gravel, soil, and IWM would be from either I-80 or from U.S. Highway 50 (U.S. 50). The neighborhoods along the routes would be notified of haul routes, ingress and egress points, staging areas, detours, lane closures (if any), and closed recreational areas (including bike paths) approximately one week prior to commencement of construction activities. Signage would be installed at all ingress and egress locations to alert the public of construction activities and potential restrictions on access during construction activities. Coordination with the Union Pacific Railroad (UPRR) would occur well before construction starts to ensure railroad safety measures are in place.

As depicted on **Figure 2-12**, haul trucks would travel to the staging areas using the main ingress points at either the Sutter's Landing Regional Park entrance located off of 28th Street or at Glenn Hall Park located off of Carlson Drive. Haul trucks would travel along the top of the levee crossing the paved bicycle path adjacent to the 28th and B Street Skate Park. Bicycle traffic within Sutter's Landing Regional Park would be controlled by a dedicated flagger during construction to prevent collisions from occurring. All other areas along the levee east of Sutter's Landing Regional Park to Glenn Hall Park would be closed to pedestrian and bicycle traffic for safety reasons. All traffic passing over the UPRR at-grade crossing would require a dedicated flagger and other railroad safety measures during construction. Haul trucks would enter either main ingress points and use either the downstream or upstream temporary construction access ramps to deliver their loads on the waterside of the levee along Site 1-1 and then continue along the top of the levee to exit at either Glenn Hall Park or at Sutter's Landing Regional Park. Haul trucks would travel either north or south along Howe Avenue to either I-80 or to U.S. 50. Some smaller pickup trucks or equipment may enter from either Glenn Hall Park or at Sutter's Landing Regional Park to access Site 1-1. In addition, the haul routes shown on Figure 2-12 could



SOURCE: USDA, 2018; USACE, 2021; ESA, 2022

ARCF 2016 American River Contract 3A

Figure 2-12
Site 1-1 Construction Haul Routes

ESA

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be used in both directions if traffic or road closures occur for unforeseen reasons (e.g., emergencies, road construction, etc.) during the construction period. There are four staging areas within Sutter's Landing Regional Park (see Figure 2-1); three are within paved or cement parking areas near the dog park and skate park areas and the third is in an area near the Capitol City Freeway on the landside of the levee. This latter staging area has been previously used for other construction projects in the area.

2.3.4.3 Construction Materials and Equipment

Construction materials are shown in **Table 2-2**, below. Excavated soil would be hauled off-site to either an existing stockpile location or to a landfill within 15 miles of the project site. The stockpile would be located on a site or sites that are disturbed or previously cleared and/or used for stockpiling and completely void of any sensitive resources on or adjacent to the site(s). Some on-site excavated soil and soil from the Caltrans I-80 bridge project could be used for project construction pursuant to Clean Water Act Section 401 permit conditions and approval by the Central Valley Regional Water Quality Control Board. Sources of riprap would come from quarries located between approximately 40 to 75 miles away. Planting bench soil would come from off-site soil sources for the erosion protection design. Finally, IWM would come from sources within a 100-mile distance from the Site 1-1. Table 2-2 also lists the number of truck loads and durations of hauling in the construction materials. Construction material hauling would not occur simultaneously for all materials. For example, site preparation including tree and stump removals and excavation would occur first, resulting in the hauling of excavated materials occurring before importation of bedding material. The sequence of importation of materials is as follows: bedding, riprap, soil-filled riprap, planting bench soil, and finally aggregate base. In general, each of the materials would be brought in and used before the next material would be needed. However, there would be some overlap in hauling in of materials in the sequence to maintain progress during the construction season.

TABLE 2-2
CONSTRUCTION MATERIAL VOLUMES AND TRUCK LOADS FOR SITE 1-1

Material	Quantity	Truck Loads and Durations
Excavated Soil	3,500 cubic yards (cy)	360 for 12 days
Riprap	23,400 cy	2,700 for 34 days
Soil-filled Riprap	10,000 cy	1,500 for 14 days
Bedding Material	7,520 cy	750 for 12 days
Planting bench soil	21,000 cy	2,090 for 26 days
Aggregate Base	4,100 cy	455 for 9 days
IWM	160 trees	40 for 20 days

Construction equipment required for the Proposed Action is shown in **Table 2-3**. Haul trucks are expected to be 10 cy in capacity to bring in riprap from quarries and soil from offsite sources. At a minimum, 90 percent of all heavy-duty off-road construction equipment of 50 horsepower or greater would meet EPA Tier 4 standards. No EPA Tier 0 engines would be used. All haul trucks would have 2010 or newer engines.

TABLE 2-3
CONSTRUCTION EQUIPMENT AND PERSONNEL UTILIZATION

Type of Equipment	Max. Number Used per Day	Total Operation Days	Number of Workers
Excavator (CAT 345)	2	80	2
Dozer (CAT D-5)	2	60	2
Skid Steer	3	80	3
Roller or grader	1	30	1
Sheepsfoot Roller	2	40	2
Dump Truck	20	60	20
Flatbed Truck	1	20	1
55-ton Crane (RT-555)	1	15	1
Pickup Trucks	5	80	5
Water truck	1	80	1
		Total	**38**

2.3.4.4 Construction Workers and Schedule

All workers would access the site by regional and local roadways. Construction hours would comply with City of Sacramento's noise ordinance and would be Monday through Saturday from 7:00 a.m. to 6:00 p.m. and Sundays from 9:00 a.m. to 6:00 p.m. No work or hauling would take place on holidays without permission given by the City of Sacramento. Construction is anticipated to occur over approximately 1.5 years. Construction is expected to begin with removal of trees and shrubs beginning as early as October 2022. Mobilization of construction equipment, site preparation, and construction would begin as early as May 2023 and is expected to take approximately 7 months to complete, with the last 6 months of post-construction related work (e.g., plantings, irrigation, stormwater control monitoring) being completed between December 2023 and Summer of 2024. **Table 2-4** provides anticipated activities and durations for major work phases at Site 1-1, and plantings at offsite mitigation sites. However, this schedule may need to be extended if flood flows in spring and summer 2023 limit site access to construction equipment.

TABLE 2-4
ANTICIPATED PRIMARY CONSTRUCTION PHASES

Oct 2022–Feb 2023	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec 2023 to Summer 2024
Tree removal and pruning								
	Site preparation and mobilization; Primary Earthwork; Delivery and Export of Haul Materials							
							Install Rock Under Bridge; Planting; Fine Grading	
								Planting; Monitoring/ Maintenance

NOTES:
1 Tree removal in January and February may be limited or determined to be infeasible due to high water levels near desired planting bench and toe protection areas.

2.3.4.5 Demobilization and Cleanup

Any staging area and both construction access ramps (portions outside of erosion protection design) would be restored to original pre-existing contour and condition or as agreed to by the property owner. To avoid erosion, staging areas would be hydro-seeded and layered with wood mulch to prevent encroachment of invasive species. Any roads or other access areas damaged by construction would be repaired and restored to prior condition. All trash, excess construction materials, and construction equipment would be removed.

2.3.5 Public Safety

The design of Site 1-1 would remove all vegetation within the 15-foot vegetation free zone from the waterside toe of the levee. No vegetation would be planted in the vegetation free zone as part of the Proposed Action. In the segment of Site 1-1 upstream of the I-80 Bridge, the bench would narrow and disappears immediately upstream of the bridge. The levee slopes down from the levee crown road at a continuous slope of approximately 1V:3H to the river. The vegetation free zone in this area is defined by the elevation of the landside toe of the levee extended through the levee to the waterside with an additional 15 feet added horizontally. No levee inspection road exists in this segment; only the levee crown road. In this segment, existing trees within the vegetation free zone and within the project construction limits would be removed to provide access and operations and maintenance (O&M) of the levee.

In the segment of Site 1-1 downstream of the I-80 bridge, a sufficiently wide bench would provide the required 15-foot vegetation free zone along the waterside of the levee toe. At the landside toe of the levee a paved bike and pedestrian trail would also provide access

to emergency and maintenance vehicles as well as serve as the levee inspection road. The top of the levee road would also be maintained after construction to provide continued access for operations and maintenance. Placed rock supporting the planting benches would be at slopes of 1V:2H or flatter reducing the potential for pedestrians to become trapped and reduce fall hazards. The design of the IWM and the natural vegetation at the bank toe would be located on the planting bench spaced apart as described previously. This design would prevent recreationists from getting caught on the IWM and would allow shore access between IWM, as described previously. The IWM would be at a depth and velocity where recreational users of the river can wade out and around the IWM at typical recreational flows in the river.

2.3.6 Operations and Maintenance

Once construction is complete and the performance standards have been met and habitat has successfully established, the non-Federal sponsors (the CVFPB and SAFCA) would be responsible for the O&M of Site 1-1 and all land used for staging areas would return to original ownership. However, the responsibility for the O&M for the levee and revetment features would be turned over to the LMA (American River Flood Control District (ARFCD)) and the on- and off-site mitigation features would specifically fall to SAFCA for long-term O&M. Regular O&M activities by the LMA would consist of inspections, weed abatement, removal of encroachments and high-hazard vegetation to ensure levee integrity, replacement and re-working of displaced or launched revetment following large flood events, and adequate levee access along the levee toe road. The levee maintenance roads would be used, as they are currently used, to access the length of the levee during these activities and during high-flow events for flood-fighting purposes. O&M activities would not require heavier or noisier equipment than under current conditions. O&M inspections would consist of a patrol vehicle traveling along the levee and small machinery for weed abatement such as mowers and weed whackers/trimmers. These activities would only occur periodically, as under existing conditions. O&M activities would not introduce new land uses into the area.

CHAPTER 3
Affected Environment and Environmental Consequences

3.1 Introduction

3.1.1 Approach to the Analysis

Each resource topic presented in this chapter includes a summary of the regulatory setting, environmental setting, methodology, and the basis of significance conclusions for environmental effects. Supplemental information on existing environmental and regulatory settings is presented when needed to provide the context for the impact analysis and/or update the information, as relevant. The basis for determining the significance of impacts is presented, based on the criteria used in the ARCF GRR FEIS/FEIR analysis. After publication of the ARCF GRR FEIS/FEIR, changes were made to Appendix G of the CEQA Guidelines that reflected changes to the CEQA statute and related court decisions. To the extent that the topics or questions in the revised Appendix G are not reflected in the ARCF GRR FEIS/FEIR significance criteria, these topics and questions have been taken into consideration in the impact analysis.

For impacts associated with implementation of the Proposed Action, mitigation measures included in the ARCF GRR FEIS/FEIR and previously adopted are incorporated into the Proposed Action to reduce the level of significance of the impact. Where an impact of the Proposed Action is determined to require additional mitigation beyond the ARCF GRR FEIS/FEIR mitigation measures, new or modified ARCF GRR FEIS/FEIR mitigation measures are recommended.

3.1.2 Resource Topics Not Discussed in Detail

Some resource topics were eliminated from further analysis in this Supplemental EIR, because effects of the Proposed Action are negligible, or the project refinements described in the Proposed Action would not create additional impacts on these resources beyond the scope of those evaluated in the ARCF GRR FEIS/FEIR. These resource topics are land use, mineral resources, geology, wildfire, and socioeconomics, populations, and environmental justice.

3.2 Visual Resources

3.2.1 Environmental Setting

3.2.1.1 Regulatory Setting

Chapter 5 of the ARCF GRR FEIS/FEIR described the status of compliance with the Wild and Scenic Rivers Act in detail, which applies to the aesthetic value of the American River, including visual resources.

3.2.1.2 Existing Conditions

The ARCF GRR FEIS/FEIR Section 3.15 (pages 293 through 297) describes the regional and local setting in the vicinity of the Project Area for the Proposed Action.

In general, the visual environment along the American River includes urban development on the landside of the levee, including homes and landscaped backyards, and the natural riparian and river features on the waterside of the levee. The existing levees block views of the American River from most adjacent landside areas. Views of the Parkway from the second story of homes directly adjacent to the levee are possible in some areas. People using the top of the levee for recreational activities see primarily riparian forest and open space lands throughout the Parkway on the waterside.

Site 1-1 is located on the left bank of the LAR and the Project Area generally extends from Sutter's Landing Regional Park on the west to Glenn Hall Park on the east. Site 1-1 is divided into two segments: one segment is downstream of the I-80 overcrossing of the American River, and one segment extends underneath and upstream of the overcrossing (see Figures 2-3 and 2-6 in Chapter 2, *Alternatives*).

The downstream segment of Site 1-1 extends through and along the northern edge of Sutter's Landing Regional Park. Comprising mostly of unimproved land, Sutter's Landing Regional Park includes several improvements and features that stand in visual relief to the largely unadorned natural landscape, including basketball and bocce ball courts with shade canopy seating areas, landscaping, shade structures, walkways, unshaded and shaded parking lots, a dog park, and a large corrugated metal building that houses the Sutter's Landing Skate Park. From ground level, along the gravel levee trail that traverses the northern extent of the expanse of Sutter's Landing Regional Park, direct views of the American River and its vegetated northern bank are intermittently obscured by trees and other vegetation, and transportations structures (i.e., railroad trestle and Capitol City Freeway Bridge).

The upstream segment of Site 1-1 and associated haul route, from the Capital City Freeway Bridge overcrossing to Glenn Hall Park, extends along the levee segment that traverses the northern portion of the River Park neighborhood. Direct views of the American River and its vegetated northern bank are visible to users of the levee trail and are largely obscured by the levee, trees, and other vegetation from within the neighborhood. The approximately

7-acre Glenn Hall Park includes a large playfield flanked by mature trees, tennis courts, a swimming pool, and shaded and unshaded areas with tables and barbeques.

Portions of haul routes for construction of the Proposed Action include urbanized areas, passing through the neighborhoods of River Park, Arden Arcade, Sierra Oaks, Campus Commons, and Arden Town. The views within the residential areas are considered to be of high visual quality and are primarily traveled by local residents, commuters, students, and recreationists (see Figure 2-12, Haul Routes, in Chapter 2, *Alternatives*).

3.2.2 Methodology and Basis of Significance

3.2.2.1 Methodology

The analysis of the Proposed Action's potential impacts on visual resources in this section generally uses the same methodology described in Section 3.15.2 (page 305) of the ARCF GRR FEIS/FEIR. The analysis is based on a review of scenic vistas and landscapes that could be affected by project-related activities. Changes in form, size, colors, project dominance, view blockage, and duration of impacts are considered in the analysis. Other elements such as natural screening by vegetation or landforms, placement of project components in relation to existing structures, and likely viewer groups are also considered.

3.2.2.2 Basis of Significance

This analysis uses the same basis of significance described in Section 3.15.2 (page 305) of the ARCF GRR FEIS/FEIR, as restated below.

The Proposed Action would result in a significant effect related to visual resources if it would:

- Have a substantial adverse effect on a scenic vista;
- Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings;
- Substantially degrade the existing visual character or quality of the site and its surroundings; or
- Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area.

Since publication of the ARCF GRR FEIS/FEIR, changes to Appendix G of the State CEQA Guidelines were adopted that consider the direct, indirect, or cumulative effects of degrading the visual character of a site. As a result, this analysis also takes into consideration the following additional or modified significance criterion:

- Substantially degrade the existing visual character or quality of public views of the site and its surroundings. Public views are those that are experienced from publicly accessible vantage points.

3.2.3 Impact Analysis

3.2.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the existing level of risk of flooding due to levee failure because of seepage, slope stability, overtopping, or other erosion concerns.

Under these conditions, a flood event could cause portions of the levees to fail, triggering widespread flooding and related damage. If a catastrophic flood were to occur, vegetation and heavy erosion of soil along the American River Parkway would be lost. Flood fight activities would occur during a high flow emergency response resulting in emergency response with heavy-duty construction equipment in more areas than the Proposed Action. Flood fighting would result in the placement of large volumes of rock along the riverbanks to stop erosion and prevent further levee failure. The placement of rock would prevent or impede future growth of trees and vegetation on the levee slopes. All these effects on visual resources would be considered significant. However, the timing, duration, and magnitude of a flood event are speculative and unpredictable, and therefore a precise significance determination cannot be made.

3.2.3.2 Proposed Action

The ARCF GRR FEIS/FEIR Section 3.15 (pages 293 through 313) analyzed the impacts on visual resources for approximately 11 miles along the American River Parkway, including the Project Area. The analysis of impacts on visual resources from improvements included in the Proposed Action would be the same as identified in the ARCF GRR FEIS/FEIR for the following:

1. Construction activities would result in short-term significant and unavoidable impacts on the visual character of the American River Parkway.
2. Loss of vegetation due to removal and construction of levee improvements would result in significant and unavoidable short-term effects on visual resources of the mature vegetation, but a less-than-significant long-term impact with mitigation once new vegetation has been established.
3. Areas along the levee that could erode would expose launchable rock which would result in a long-term adverse impact on visual resources to users within the American River Parkway (i.e., at the levee portion with the launchable rock trench).

As described in Chapter 2, *Alternatives*, the Proposed Action would include construction of erosion protection improvements, use of construction staging areas and stockpile locations, and hauling of materials via trucks along haul routes. The primary features of the erosion protection improvements include a launchable rock toe, planting bench, and soil-filled levee embankment revetment. The overall objectives of the planting bench are to provide on-site habitat mitigation and to minimize visible rock revetment.

Erosion protection features would require clearing of trees and vegetation for earthwork and placement of revetment. The Proposed Action would revegetate the erosion protection measures with native vegetation to replace the vegetation removed by the construction of the Proposed Action. The planting mix would include a number of native riparian and upland plants species, which may include valley oak, riparian shrubs, and grasses consistent with American River Parkway Plan list of approved plants. The revegetation measures would reduce the intensity the Proposed Action's effects to visual resources by restoring a natural vegetated setting.

Construction activities would occur on the water side of the levee in the American River Parkway and mostly out of view from the neighboring urbanized land uses (see Figure 2-6, in Chapter 2, *Alternatives*). Some of the staging and work areas would be within view of users of Sutter's Landing Regional Park, Glenn Hall Park, recreationists along the levee trail, and residents in the adjacent portions of the River Park neighborhood; however, this would not comprise a permanent adverse visual impact. Construction at Site 1-1 would also result in short-term temporary impacts to views of the banks of the river while newly planted vegetation and trees mature.

Portions of haul routes for construction of the Proposed Action would include urbanized areas where residents, commuters, and workers along the residential roadways would experience views of construction and worker vehicles associated with the Proposed Action. The views within the residential areas are of high visual quality and are primarily traveled by local residents, commuters, students, and recreationists. However, views of construction and worker vehicles associated with the Proposed Action would be limited to the construction period and would not result in a long-term substantial adverse visual impact.

During construction of the Proposed Action, staging areas would have lighting to ensure the security of construction equipment and stored materials, creating new sources of nighttime light that would be visible by neighboring residences and vehicles passing near the staging areas. Some of this lighting could potentially illuminate adjacent residences. This would result in a short-term temporary significant impact. However, Mitigation Measure VIS-1 would reduce the impact of nighttime light to a less-than-significant level (see below).

ARCF GRR FEIS/FEIR Mitigation Measures

The following summarizes ARCF GRR FEIS/FEIR mitigation measures (pages 311 to 312) that are incorporated into the Proposed Action:

- Trees would be planted within the planting bench where there is sufficient space (Mitigation Measures VEG-1 and SRA-1).
- Additional trees would be planted at other areas in the Parkway according to the Parkway Plan in the site to mitigate for the removal of the trees (Mitigation Measures VEG-2 and SRA-1).

Summary

The ARCF GRR FEIS/FEIR concluded that short-term impacts on visual resources associated with construction within the LAR would be significant and unavoidable. However, the ARCF GRR FEIS/FEIR determined that mitigation measures would reduce potential permanent impacts on visual resources to a less-than-significant level because once vegetation has fully developed, the visual quality of the Project Area would be similar to existing conditions. Construction of the Proposed Action would result in no new or more severe short-term visual impacts than those addressed in the ARCF GRR FEIS/FEIR and, therefore, those construction-related short-term visual impacts are already adequately addressed in the ARCF GRR FEIS/FEIR.

However, the ARCF GRR FEIS/FEIR did not consider the use of nighttime lighting for staging areas, and, therefore, there would be a short-term temporary significant impact. Implementation of the following new mitigation measure would reduce impacts from the use of nighttime light under the Proposed Action to a less-than-significant level.

Additional Mitigation Measure for the Proposed Action

Implementation of additional Mitigation Measure VIS-1 would reduce impacts of new sources of nighttime lighting installed for security at the staging areas to a less-than-significant level.

> **Mitigation Measure VIS-1:** Shield Temporary Nighttime Lighting. The Project Partners shall require its construction contractors to ensure that all temporary lighting used for security of the staging areas is shielded or directed to avoid or minimize any direct illumination onto light-sensitive receptors located outside of the Project Area.

3.3 Hydrology and Water Quality

3.3.1 Environmental Setting

3.3.1.1 Regulatory Setting

Sections 3.4 and 3.5 of the ARCF GRR FEIS/FEIR (pages 81 and 96, respectively) identified Federal or State environmental laws and regulations that apply to regulating hydrology and water quality. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations that apply to the ARCF Project and described the status of compliance with those laws and regulations.

3.3.1.2 Existing Conditions

Section 3.4 (pages 81 through 95) and Section 3.5 (pages 95 through 108) of the ARCF GRR FEIS/FEIR describe the regional and local setting in the vicinity of the Project Area. The following provides additional information specific to the Project Area not previously described.

The Project Area is in the Sacramento Hydrologic Basin Planning Area and Lower American Hydrologic Subarea, as designated by the Central Valley Regional Water Quality Control Board (RWQCB). Water quality standards for this basin are contained in the *Water Quality Control Plan for the Sacramento River Basin and the San Joaquin River Basin* (Basin Plan) per Section 303 of the Clean Water Act. The Lower American River is listed as impaired for mercury, polychlorinated biphenyls (PCBs), toxicity, bifenthrin (a pesticide), pyrethroids (pesticides) and indicator bacteria.[6] The California Department of Water Resources (DWR) defines the Project Area as within the South American Subbasin (5-021.65).[7] This basin is designated as a High Priority basin under DWR's Sustainable Groundwater Management Act[8] for the purposes of meeting the groundwater sustainability goals of the State.

3.3.2 Methodology and Basis of Significance

3.3.2.1 Methodology

This analysis generally uses the same methodology described in Section 3.4 (page 90) and Section 3.5 (page 101) of the ARCF GRR FEIS/FEIR. The analysis evaluates the potential flood-related impacts of the Proposed Action on water surface elevation levels (WSELs) and erosion processes (e.g., scour and lateral bank erosion) in the Lower American River (LAR). The analysis also evaluates the potential water quality impacts that could result from project construction activities and operations based on the construction practices and materials that would be used, the location and duration of the activities, regulatory requirements related to water quality, and the potential for degradation of water quality or beneficial uses of Project Area waterways.

The analysis of the ARCF GRR FEIS/FEIR was supplemented with an analysis by United States Army Corps of Engineers (USACE) on the effect of construction of Site 1-1 on WSELs at 160,000 and 192,000 cubic feet per second (cfs) as presented in the *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology, American River Common Features Erosion Protection Contract 3A Engineering and Design Phase* (Report). These flows represent the primary design metric and extreme loading scenario, respectively, for erosion control measures (described in more detail below). *Final Supplemental Environmental Impact Statement/Environmental Impact Report*. The design for Site 1-1 includes a combination of a launchable rock toe, planting benches, and riverbank and levee embankment revetment protection. The USACE provided an updated hydrology and hydraulics analysis of these proposed bank protection designs at Site 1-1 that is considered in this document.[9] The Report includes a

6 State Water Resources Control Board. 2021. *Recommended 2020-2022 Integrated Report Appendix A: Recommended 2020-2022 3030(d) List of Impaired Waters*. https://www.waterboards.ca.gov/water_issues/programs/water_quality_assessment/2020_2022_integrated_report.html. Accessed December 21, 2021.

7 California Natural Resources Agency. 2018. *5-021.65 Sacramento Valley – South American Basin Boundary Description.* https://data.cnra.ca.gov/dataset/bbd5. Accessed December 21, 2021.

8 California Department of Water Resources. 2021. Sustainable Groundwater Management Act, SGMA Basin Prioritization Dashboard. Available: https://gis.water.ca.gov/app/bp-dashboard/final/. Accessed December 21, 2021.

9 USACE, 2021. *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology*. November 18, 2021.

description of the project features, pertinent technical and design data, design criteria, assumptions, methods, and modeling results used for the project design.

Water Surface Elevation Level Modeling

Hydraulic impacts of the design at Site 1-1 were evaluated by comparing model runs of existing and Proposed Action conditions in calibrated one-dimensional (1D) and two-dimensional (2D) hydraulic models referred to as the MVP 1D and MVP 2D models, respectively. The MVP 1D and MVP 2D models extend from the confluence of the Sacramento and American Rivers upstream to the top of the leveed reach in the LAR (about 13 miles). The USACE Central Valley Hydrology Study (CVHS) defines the hydrology of the LAR system and includes the boundary conditions used to assess the hydraulic impacts of the project features.[10] The boundary conditions used in the MVP 1D and MVP 2D models represent annual exceedance probability (AEP) events of storms centered on the American River at the Fair Oaks United States Geological Survey (USGS) gage.

Both 65% design models were calibrated to existing conditions prior to modeling various project design alternatives presented in the Proposed Action. Note that the MVP 2D model provides more spatially descriptive results than the MVP 1D model and thus was the preferred model to inform the geometric layout of the Proposed Action design, WSELs for habitat features (for discharges < 18,500 cfs), and extract flow patterns, velocities, and shear stress.[11] Existing conditions include the following projects:

- ARCF GRR Sacramento Weir Widening (65% designs)
- ARCF GRR American River Contract 1 (100% designs)
- ARCF GRR American River Contract 1 and American River Contract 2 habitat mitigation sites
- ARCF GRR American River Contract 2 Site 2-2 (65% designs)
- ARCF GRR American River Contract 2 Site 2-3 (65% designs)
- Caltrans Capitol City Freeway bridge expansion (20% designs for substructure station-elevation data)
- DWR 2019 Bathymetric Data Version 1
- 2017 Light Detection and Ranging (LiDAR) data

Modeled effects to WSELs were made assuming construction of the 65% design for Site 1-1 over the existing conditions for the design flow rates of 115,000, 160,000, and 192,000 cfs. The design flow of 160,000 cfs is based on the design flow from Folsom

[10] USACE and David Ford Consulting Engineers, 2015. *Central Valley Hydrology Study*. November 29, 2015.

[11] USACE, 2021. *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology*. November 18, 2021.

Dam in the latest update to the Water Control Manual (WCM). This design flow accounts for the new auxiliary spillway completed under the Joint Federal Project (JFP). The 192,000 cfs flow event represents the approximate maximum capacity of the LAR at the incipient overtopping of the levees used to inform risk assessments needed to meet USACE Engineering Construction Bulletin 2019-15. All designs and analyses were completed in accordance with USACE Engineering Manuals and Reports.[12]

Scour and Erosion Modeling

The MVP 1D and MVP 2D models were also used to estimate scour and lateral bank erosion as a result of the Proposed Action. Scour within a riverine system generally refers to the process of channel bed erosion, resulting in a local drop of the bed elevation. For flood risk management projects, identifying the potential for scour is a critical evaluation because features close to scour areas may fail or cease to function as intended. For example, scour within close vicinity of a levee may cause the levee to not achieve the design factor of safety and lead to a slope failure during a flood event. Similar to scour, lateral bank erosion, may occur when velocities and shear stresses exceed the critical values for both the surface material present on the riverbank as well as the underlying soils. Similarly, the quantifying lateral bank erosion is important to ensure that flood risk management features, such as levees, are not compromised.

Scour was estimated using hydraulic parameters from the MVP 1D model. Scour depths were calculated at seven cross sections for the 115,000, 160,000, and 192,000 cfs design flows utilizing the existing conditions features included in the 65% design package (see above). The results were validated for three cross sections using the MVP 2D model for the 160,000 cfs flow rate.

Lateral bank erosion was estimated using the Bank Stability and Toe Erosion Model (BSTEM) developed by the United States Department of Agriculture (USDA). The BSTEM model couples geotechnical slope stability calculations and hydraulic model data with erosion estimates from the excess shear equation to determine lateral erosion extents. The primary inputs to the BSTEM model include the following:

- Cross section station and elevation information for the ground surface of the riverbank
- Soil types and layer elevations (up to 5 soil layers)
- Specific soil parameters including friction angle, cohesion, saturated unit weight, soil critical shear, and soil erodibility coefficient
- Stage and energy grade slope hydrograph data, and
- Bank roughness (effective Manning's n which accounts for roughness associated with the forces acting on the soil surface).[13]

[12] USACE, 2021. *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology*. November 18, 2021.

[13] USACE, 2021. *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology*. November 18, 2021.

Lateral bank erosion was evaluated against the flood risk management criteria established by the USACE.[14] Briefly, these criteria assume riverbanks are devoid of vegetation and thus provide a conservative estimate of lateral bank erosion. Project features, including the riprap, were parameterized accordingly. That is, areas where 65% designs included riprap used critical shear stress and erodibility coefficient values from the parameter calculator within the BSTEM model.[15]

3.3.2.2 Basis of Significance

This analysis uses the same basis of significance described in Section 3.4 (page 92) and Section 3.5 (page 102) of the ARCF GRR FEIS/FEIR, as restated below.

The Proposed Action would result in a significant effect related to hydrology and water quality if it would:

- Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river in a manner that would result in:

  (1) Substantial erosion or siltation on- or off-site, or

  (2) Substantial increase in the rate or amount of surface runoff in a manner that would result in flooding on- or off-site;

- Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff;

- Place housing within a 100-year flood hazard area;

- Place within a 100-year flood hazard area structures which would impede or redirect flood flows;

- Expose people or structures to a significant risk of loss, injury, or death involving flooding;

- Violate water quality standards or waste discharge requirements;

- Substantially deplete groundwater supplies or interfere substantially with ground water recharge;

- Substantially degrade water quality; or

- Alter regional or local flows resulting in substantial increases in erosion or sedimentation.

[14] USACE, 2021. *Engineering and Resources Design Guidelines, American and Sacramento Rivers Erosion Improvements, American River Common Features 2016.* Sacramento, CA: Version 4. March 2, 2021.

[15] USACE, 2021. *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology*. November 18, 2021.

Since publication of the ARCF GRR FEIS/FEIR, changes to Appendix G of the State CEQA Guidelines were adopted that include the following additional or modified significance criteria:

- Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality.
- Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin.
- Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
  - Result in substantial erosion or siltation on- or off-site;
  - Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;
  - Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or
  - Impede or redirect flood flows.
- In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation.
- Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

Given that the Proposed Action would implement measures to prevent erosion, the impact analysis presented below in Section 3.3.3, *Impact Analysis,* first discusses potential impacts of the Proposed Action to hydrology, followed by potential impacts to water quality.

Effects Not Evaluated Further

As described in the ARCF GRR FEIS/FEIR, groundwater is not likely to be encountered during excavation or trenching, based on the 2013 Groundwater Update for the California Water Plan which states that groundwater could be as deep as 90 feet below ground surface, which is well-below proposed construction activities. Further, any water that would be encountered during construction activities would likely be directly connected to water in the American River and not directly to the underlying groundwater basin. Because groundwater is not likely to be encountered and would not be used as a source of water supply, the Proposed Action would not cause a substantial decrease in groundwater supplies or conflict with or obstruct implementation of the sustainable groundwater management plan. Furthermore, the Proposed Action would not create any new

impervious surfaces that would interfere with groundwater recharge, or impede sustainable groundwater management, or increase runoff over existing conditions. Additionally, the Project Area is inland and not mapped in an area where tsunami or seiche are likely to occur,[16] therefore no further evaluation is necessary.

3.3.3 Impact Analysis

3.3.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the existing level of risk of flooding due to levee failure because of seepage, slope stability, overtopping, or other erosion concerns.

Under these conditions, a flood event could cause portions of the levees to fail, triggering widespread flooding and related damage. If a catastrophic flood were to occur, emergency flood fighting and clean-up efforts would be undertaken to control further erosion and loss of the levee system. Timing and duration of control would correlate with other emergency flood fighting needs, but it is foreseeable that the release of sediment, vegetation, debris from urban dwellings and structure, and hazards and hazardous materials would contribute to exceeding applicable environmental thresholds for hydrology and water quality in the American River and further downstream in the Sacramento River. Depending on the magnitude of a flood, flood fighting could last for weeks or even months. Moreover, due to the unpredictable nature of emergency responses, the application of best management practices (BMPs) to control all erosion and movement of other substances and debris into the American River and other waterways would be infeasible. All of these effects on hydrology and water quality would be considered significant; however, the timing, duration, and magnitude of a flood event is unpredictable, and therefore precise significance determination cannot be made.

3.3.3.2 Proposed Action

Sections 3.4 and 3.5 (pages 81 through 108) of the ARCF GRR FEIS/FEIR analyzed the impacts on Hydrology and Water Quality along 11 miles of the American River, including the areas in and around Site 1-1. The following sections present additional analyses and details not discussed in the ARCF GRR FEIS/FEIR to identify potential hydrology and water quality impacts of the Proposed Action design and any temporary impacts associated with construction including staging areas, haul routes, and stockpile locations.

Hydrology

The objective of the design of Site 1-1 is to reduce the risk of a levee failure due to erosion as well as maintain hydraulic capacity. The American River levee system was originally intended to convey a discharge of the 100-year event at 115,000 cfs as directed

[16] California Geological Survey Department of Conservation, 2021. https://www.conservation.ca.gov/cgs/tsunami/maps. Accessed December 21, 2021.

in the Folsom Dam and Lake WCM. After flooding in 1986, an emergency objective release provision of 160,000 cfs (or 200-year event) was added to the WCM. The ARCF Project was modified by the Water Resources Development Act of 1999 to include additional necessary features for the American River so that it could safely convey an emergency release of 160,000 cfs. The ARCF GRR identified further improvements to the system to safely convey 160,000 cfs including addressing erosion concerns.

The ARCF American River Levee Raising Top of Levee Profile Design Documentation Report[17] completed as part of the WRDA 1999 authorization developed a new design top-of-levee elevation for the 160,000 cfs design flow. The new top of levee provided between 2 and 4 feet of freeboard above the expected 160,000 cfs water surface elevation (i.e., the elevation of water in the river channel relative to the top of levee design). The 160,000 cfs water surface elevation is generally 3 to 4 feet above the 115,000 cfs water surface elevation. Sections of levee that did not meet the new top of levee profile were raised to the new design top of levee profile. Existing sections of levee that met or exceeded the new profile were not adjusted.

The recent addition of the auxiliary spillway structure to Folsom Dam and further updates to the WCM have affected the annual chance exceedance (ACE) of flow events on the LAR. Recent hydrological modeling completed as part of the USACE CVHS has provided updated storm hydrographs for storm events of varying ACE values. **Table 3-1** summarizes the peak flow on the LAR for various ACE flow events. The objective release flow of 115,000 cfs during a 100-year event will occur during the 4-percent ACE through the 1-percent ACE hydrologic events, while the 0.5-percent ACE is slightly above the 115,000 cfs release at 117,000 cfs. The 160,000 cfs emergency release has an ACE of about 0.3-percent.

Existing (also the No Action/No Project condition) and Proposed Action conditions were simulated for the 115,000, 160,000, and 192,000 cfs flow events (see Subsection 3.3.2.1, *Methodology*).

TABLE 3-1
SUMMARY OF ANNUAL CHANCE OF EXCEEDANCE FLOWS AT NIMBUS DAM

Annual Chance of Exceedance	Peak Flow (cfs)
50%	20,500
10%	99,000
4%	115,000
2%	115,000
1%	115,000
0.5%	117,000
0.3%	160,000

[17] USACE. *American River Project Common Features American River Levee Raising Sacramento County, California. Top of Levee Profile Design Documentation Report*. May 2007.

Water Surface Elevation Level Modeling Results

The MVP 1D and MVP 2D models were used to assess stage impacts resulting from the Proposed Action and the potential for overtopping the levee system. Stage impacts were computed by subtracting the Proposed Action WSEL from the existing conditions, as described previously in Subsection 3.3.2.1, *Methodology*. Reported positive stage impacts are indicative of increased WSELs due to the Proposed Action; negative stage impacts are indicative of decreased WSELs due to the Proposed Action. The stage impact threshold where WSELs would impact the levee system was determined to be approximately 0.2 feet.

Comparison of existing and Proposed Action conditions show that construction of the erosion protection improvements at Site 1-1 would result in stage impacts of 0.03, 0.04, and 0.05 feet for the 115,000, 160,000, and 192,000 cfs events, respectively. The location of incipient (or the beginning of) overtopping for both the north and south levee systems was shown to be located well upstream of Site 1-1 (between the Howe and Watt Avenue bridges), further reducing the concern that the Proposed Action would lead to stage impacts. Therefore, the impacts of the Proposed Action on WSELs and the potential for alteration in the existing drainage patterns of the LAR, resulting in increased erosion, siltation or surface runoff, would be less-than-significant.

Scour and Erosion Modeling Results

The MVP 1D and MVP 2D models were also used to evaluate scour and lateral bank erosion resulting from the Proposed Action and the potential for damages within close vicinity of the levee resulting in safety issues. The scour analysis resulted in estimates of total scour depth, defined as a combination of four individual scour components (described in more detail in the Report), at Site 1-1 and the I-80 bridge.[18] As stated previously, at Site 1-1 the launchable rock toe at on the upper berm of the riverbank was designed to protect the adjacent levees from failure should scour occur. For purposes of this impact analysis, the threshold of significance for scour was defined as whether the rock toe launched.

Lateral bank erosion on the LAR has been minimal since the end of mining within the river vicinity, however historic peak flows have been much lower than the project design events of 160,000 and 192,000 cfs. The closest event occurred in 1986 with a peak flow of 134,000 cfs and caused erosion into the levee prism that did not result in levee failure.[19] For purposes of this impact analysis, the threshold of significance was defined as whether an event would result in erosion into the levee prism.

Scour modeling results are presented in **Table 3-2** at Site 1-1 and the I-80 Bridge for the 115,000, 160,000 and 192,000 cfs events. Model results at these design flows show that scour is not expected to occur and the rock toe is not expected to launch. Lateral bank

[18] USACE, 2021. *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology*. November 18, 2021.

[19] USACE, 2021. *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology*. November 18, 2021.

erosion modeling results indicate that for both the 160,000 and 192,000 cfs design events, erosion does not reach the levee prism and the revetment meets the design velocity threshold for stability. The Proposed Action design cross section would not exceed the erosion initiation threshold, and erosion modeling results show no lateral migration of the levee bank. Thus, the impacts of the Proposed Action on erosion and siltation, supported by the scour and lateral bank erosion modeling results, would be less-than-significant.

TABLE 3-2
SCOUR MODELING RESULTS

Site or Bridge Location	115,000 cfs Total Scour Depth Range, ft	160,000 cfs Total Scour Depth Range, ft	192,000 cfs Total Scour Depth Range, ft
1-1	10-12	12-13	13-14
I-80 Bridge	17	20	21

SOURCE: Table 10 presented in USACE, 2021. *Design Documentation Report Supplemental Work Package Appendix B: Hydraulics and Hydrology*. November 18, 2021.

Summary

Modeling results of WSELs, scour and lateral bank erosion for the Proposed Action were used as hydrologic impact indicators. These indicators were used to determine whether the Proposed Action would: substantially alter the existing drainage pattern of the site or area, including through the alteration of the course or a stream or a river or through the addition of impervious surfaces in a manner that would result in substantial erosion or siltation on-or off-site; substantially increase the rate or amount of surface runoff in a manner that would result in flooding on-or off-site; create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems; or provide substantial additional sources of polluted runoff. Results of the modeling of the Proposed Action on hydrology determined that impacts would be less-than-significant.

Water Quality

Construction of the Proposed Action would include ground disturbance activities that could expose soils to increased rates of erosion during storm events that could increase the rate of sedimentation in receiving waters. Construction of the Proposed Action would also involve vegetation clearing needed to allow for site access and to accommodate construction activities, as well as post-construction revegetation of the erosion protection measures with native vegetation to replace the vegetation removed by the construction of the Proposed Action. Sediment input into the river and turbidity caused by sediment-laden runoff or placement of rock in the river could cause a turbidity plume in the water that would affect aquatic organisms, including benthic organisms and fish. Use and storage of equipment could result in the accidental spills of fuel, oil, and other construction equipment related materials that could also be carried in stormwater runoff to receiving waters. As a result, there is the potential for construction activities to adversely affect receiving water quality.

A turbidity curtain and/or other turbidity minimization measures would be installed prior to any in-water work conducted on the waterside of the levee. The work limits and staging areas would be fenced (orange construction fencing) to protect sensitive habitat, and to identify disturbance area limits. Coir or rice straw wattles or other sedimentation reducing measures would be installed where feasible downstream from any ground disturbing activities that have the potential to cause sediment runoff into the river.

Most of the construction activities would occur during dry summer months and when flows are lowest in the American River, likely July to October. Construction activities with ground-disturbances greater than one acre requires construction contractors to prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) and comply with the conditions of the National Pollutant Discharge Elimination System (NPDES) Construction General Permit (Order 2009-0009-DWQ, NPDES No. CAS000002; as amended by Orders 2010-0014-DWQ and 2012-006-DWQ). The construction contractor(s) would be required to obtain a NPDES Construction General Permit from the Central Valley RWQCB detailing construction activities, work areas, storage areas, work schedule, potential for run-on, run-off, and spill prevention measure to be implemented during construction activities.

The SWPPP would describe the construction activities to be conducted, and BMPs that would be implemented to contain spills and prevent discharges of stormwater into waterways, including frequency of inspections and monitoring activities that would be required. BMPs could include but are not limited to straw waddles, geotextile and coir mats, tire wash stations at ingress/egress points to prevent tracking soil off-site onto roadways and entering the municipal stormwater collection system, and sand filter bags at stormwater collection inverts. Potential turbidity effects from landside construction (e.g., vehicle, staging, placement of construction equipment) would be limited to stormwater runoff carrying loose soil from staging areas and construction vehicle access areas. Implementation of the SWPPP would reduce the effect sediment and construction related materials entering the stormwater system to a less-than-significant level. Following construction of the Proposed Action, BMPs would continue to be monitored and repaired/replenished while vegetation matures enough to stabilize surface soil in the Project Area.

In addition, as described in Chapter 2, *Alternatives*, construction of the habitat mitigation would involve revegetation of the erosion protection measures with native vegetation to replace the vegetation removed by the construction of the Proposed Action. For example, live cuttings would be installed at the waterside edge of the bench in a 10-foot wide strip along the riverside edge of the planting bench. Imported soils for the soil-filled slope and planting benches would require laboratory testing in accordance with Clean Water Act Section 401 permit requirements prior to placement to screen for materials that could adversely affect water quality.

As described above, the construction activities associated with the Proposed Action would not violate water quality standards or waste discharge requirements or otherwise

substantially degrade surface water quality or conflict with or obstruct implementation of a water quality control plan. Coordination with the Central Valley RWQCB would occur prior to construction through the Clean Water Act Section 401 water quality certification process to ensure that any appropriate measures would be implemented to protect water quality. Further, any use of on-site excavated soil and soil from the Caltrans I-80 bridge project for project construction would be required to meet Clean Water Act Section 401 permit conditions and approval by the Central Valley RWQCB. Protection measures may include total suspended solids (TSS) or settleable solids tests to ensure the turbidity curtain is meeting water quality requirements or other applicable requirements that will be included in permits. Furthermore, through compliance with the NPDES Construction General Permit conditions would minimize stormwater runoff from affecting water quality. To ensure that stormwater runoff meets the standards of the Central Valley RWQCB Basin Plan for the American River, implementation of the proposed avoidance and minimization measures presented below would reduce impacts from construction of the Proposed Action to a less-than-significant level.

ARCF GRR FEIS/FEIR Mitigation Measures

Minor modifications of the ARCF GRR FEIS/FEIR mitigation measures (pages 106 to 108) are incorporated into the Proposed Action, as follows:

- Because the duration and timing of the low-flow period is variable from year to year, the low-flow period was generalized in the ARCF GRR/FEIS/FEIR. Because earthwork needs to start before the in-water work window in the NMFS BO (July 1–October 31, with an extension under low-flow conditions to November 15), the following mitigation measures include a specific in-water work window range of dates different from the ARCF GRR FEIS/FEIR.

- Turbidity monitoring measures were clarified to be compliant with the most recent Basin Plan turbidity objectives.

USACE and the CVFPB would implement the following revised ARCF GRR FEIS/FEIR mitigation measures to reduce temporary, short-term construction effects on water quality in the Project Area:

> **Mitigation Measure WQ-1: Prepare and Implement a Storm Water Pollution Prevention Plan, Spill Prevention Control and Countermeasures Plan, and Associated Best Management Practices.** As part of a turbidity monitoring program, the USACE contractor(s) would monitor turbidity in the adjacent water bodies, where applicable criteria apply, to determine whether turbidity is being affected by construction and to ensure that construction does not result in a rise in turbidity levels above ambient conditions, in accordance with the Central Valley RWQCB Basin Plan turbidity objectives. The monitoring program would be coordinated with the Central Valley RWQCB prior to construction and would be implemented by the construction contractor. The contractor would be required to use BMPs, as described below, to prevent runoff from all construction areas. Environmental commitments included in the project to reduce the potential for

impacts on water quality include preparation of the SWPPP, and Spill Prevention Control and Countermeasures Plan (SPCCP).

The following measures would be implemented as part of the SWPPP, as required by the State Water Resources Control Board for any construction activities that disturb more than 1 acre, to limit erosion potential.

- Conduct earthwork during low-flow periods (e.g., approximately May 1 through November 30).
- To the extent possible, stage construction equipment and materials on the landside of the subject levee reaches in areas that have already been disturbed.
- Minimize ground and vegetation disturbance during project construction by establishing designated equipment staging areas, ingress and egress corridors, spoils disposal and soil stockpile areas, and equipment exclusion zones prior to the commencement of any grading operations.
- Install sediment barriers (e.g., silt fences, fiber rolls, and straw bales) around the base of soil stockpiles to intercept runoff and sediment during storm events. If necessary, cover stockpiles with geotextile fabric to provide further protection against wind and water erosion.
- Install sediment barriers on graded or otherwise disturbed slopes as needed to prevent sediment from leaving the project site and entering nearby surface waters.
- Install plant materials to stabilize cut and fill slopes and other disturbed areas once construction is complete. Plant materials could include an erosion control seed mixture or shrub and tree container stock. Temporary structural BMPs, such as sediment barriers, erosion control blankets, mulch, and mulch tackifier, could be installed as needed to stabilize disturbed areas until vegetation becomes established.
- During working hours, the construction activity would not cause the turbidity in the adjacent water body down current from the construction sites to exceed the Basin Plan turbidity objectives. Specifically, where natural turbidity is between 0 and 5 nephelometric turbidity units (NTUs), increases would not exceed 1 NTU; where natural turbidity is between 5 and 50 NTUs, increases would not exceed 20 percent; where natural turbidity is between 50 and 100 NTUs, increases would not exceed 10 NTUs; and where natural turbidity is greater than 100 NTUs, increases would not exceed 10 percent.[20] In determining compliance with these limits, appropriate averaging periods could be applied, provided that beneficial uses would be fully protected.
- An SPCCP is intended to prevent any discharge of oil into navigable water or adjoining shorelines. The contractor would develop and implement an SPCCP

[20] California Regional Water Quality Control Board, Central Valley Region. *Water Quality Control Plan (Basin Plan)*, Fifth Edition, Revised May 2018. Available: https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsjr_201805.pdf.

to minimize the potential for adverse effects from spills of hazardous, toxic, or petroleum substances during construction and operation activities. The SPCCP would be completed before any construction activities begin.

- Implementation of this measure would comply with State and Federal water quality regulations. The SPCCP would describe spill sources and spill pathways in addition to the actions that would be taken in the event of a spill (e.g., an oil spill from engine refueling would be immediately cleaned up with oil absorbents). The SPCCP would outline descriptions of containment facilities and practices such as double-walled tanks, containment berms, emergency shut-offs, drip pans, fueling procedures, and spill response kits. It would also describe how and when employees are trained in proper handling procedure and spill prevention and response procedures. Release of contaminants into adjacent water bodies could result in significant effects.

  Adherence to the environmental commitments and the implementation of the measures described in this section if spills were to occur would reduce or minimize this impact to a less-than-significant level.

Summary

Construction activities were evaluated to determine whether the Proposed Action would violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality, or conflict with or obstruct implementation of a water quality control plan. Implementation of the mitigation measures in the ARCF GRR FEIS/FEIR, with the modifications described above, would reduce the impact of the Proposed Action on water quality to a less-than-significant level.

3.4 Vegetation and Wildlife

3.4.1 Environmental Setting

3.4.1.1 Regulatory Setting

Chapter 5 of the ARCF GRR FEIS/FEIR summarizes the environmental laws and regulations that apply to the ARCF Project and describes the status of compliance with those laws and regulations. Regulations related to special-status species have changed and are discussed in Section 3.6, *Special Status Species*. There has been no change to the applicable regulations related to Vegetation and Wildlife. Additional detail on the American River Parkway Plan is provided here.

The 2008 American River Parkway Plan is the City and County of Sacramento's management plan for the LAR and was adopted by the City and County of Sacramento, and by the State Legislature through the Urban American River Parkway Preservation Act, Public Resources Code Section 5840. It is a policy document that provides guidance for land use decisions affecting the American River Parkway, specifically for its preservation, use, development, and administration. The Plan's purpose is to ensure preservation of the naturalistic environment while providing limited development to

facilitate human enjoyment of the Parkway. The Parkway Plan also acts as the management plan for the Federal and State Wild and Scenic Rivers Acts.

3.4.1.2 Existing Conditions

Section 3.6 (pages 109–116) of the ARCF GRR FEIS/FEIR describes the regional and local setting in the vicinity of Subreaches 1 through 4. Site 1-1 is located in Subreach 1. The following provides additional information specific to the Project Area for vegetation and wildlife for the site.

Field data for vegetation, aquatic resources, and wildlife was collected for the entire Site 1-1 (see **Appendices A, B and C**) and describes existing conditions for vegetation, aquatic resources, and wildlife.

Habitat Types

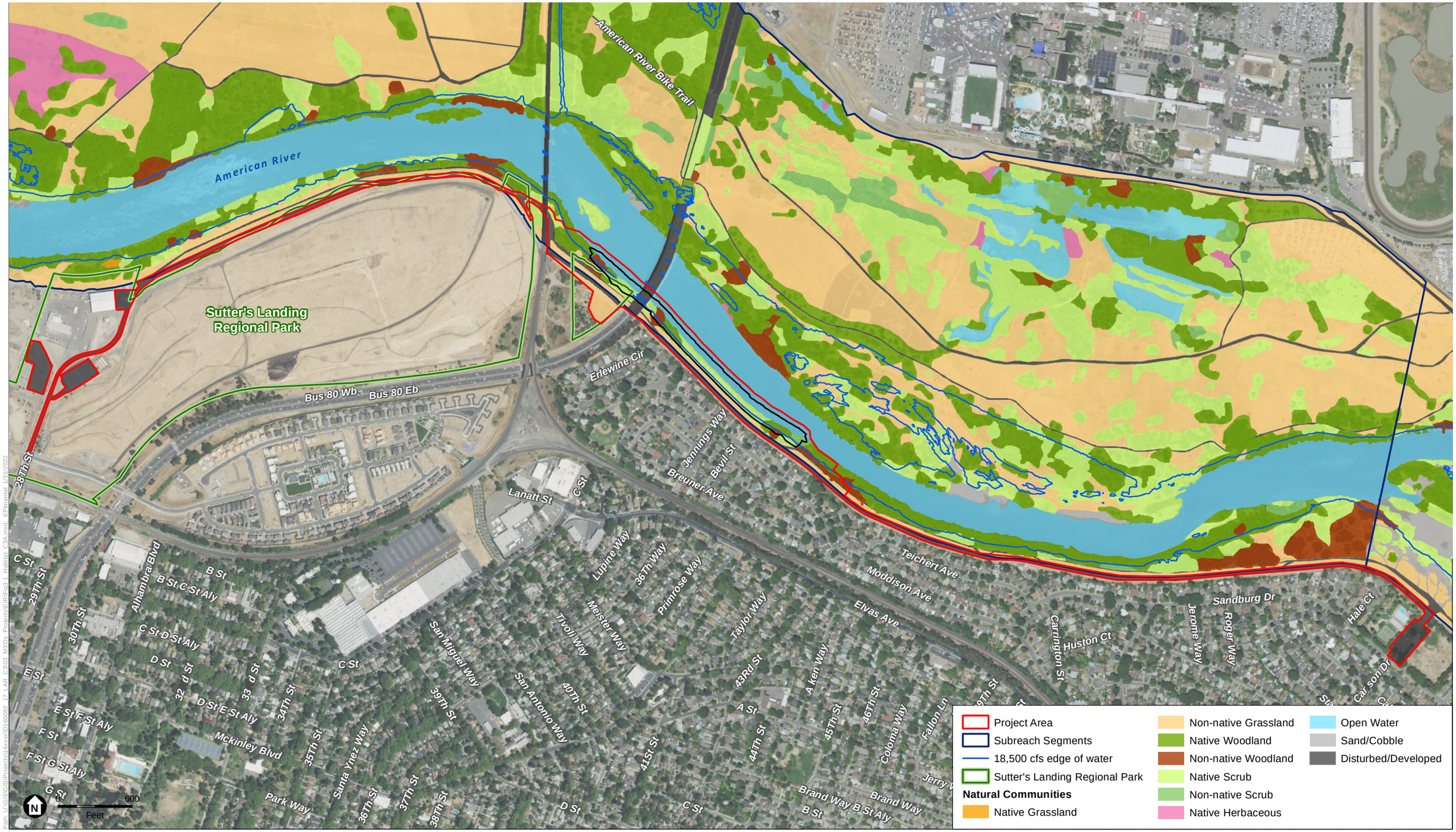
The following natural communities (i.e., habitat types) occur in Subreach 1: riverine (open water), annual grassland, mixed oak woodland, non-native woodland, riparian scrub, and riparian woodland (**Figure 3-1**). Of these natural communities those that are considered Waters of the U.S. (riverine, riparian scrub, and riparian woodland) and those that are considered riparian habitat by USFWS or other agencies (riparian scrub and riparian woodland, as well as mixed-oak woodland, and non-native woodland, *if* they occur between the levees) are considered sensitive natural communities. The distribution of the natural communities and the common vegetation and wildlife species observed in each are described below.

Annual Grassland

Common grass species observed in this community include wild oat (*Avena barbata*), bromes (*Bromus diandrus, B. hordeaceus*), foxtail barley (*Hordeum murinum*), rye grass (*Festuca perennis*), Bermuda grass (*Cynodon dactylon*), and Johnson grass (*Sorghum halepense*). Pockets of native grasses, such as beardless wild rye (*Elymus triticoides*), also occur sporadically throughout the grasslands in the survey area.

An assemblage of native and non-native forbs also occurs in these grasslands. Among the many common non-native forbs observed are spring vetch (*Vicia sativa ssp. sativa*), cranes bill (*Geranium dissectum*), Italian thistle (*Carduus pycnocephalus*), yellow star thistle (*Centaurea solstitialis*), prickly lettuce (*Lactuca serriola*), poison hemlock (*Conium maculatum*), wild radish (*Raphanus sativus*), bull thistle (*Cirsium vulgare*), rose clover (*Trifolium hirtum*), and white sweet clover (*Melilotus indicus*). Some common native forbs observed include Canada horseweed (*Erigeron canadensis*), fringed willowherb (*Epilobium ciliatum*), ragweed (*Ambrosia psilostachya*), and turkey-mullein (*Croton setiger*).

Annual grassland provides little cover for most wildlife, yet numerous species forage and several species breed in this habitat type. Grasslands attract bumblebees and other insects that rely on flowering grassland species. They also attract reptiles and amphibians, such as western fence lizard (*Sceloporus occidentalis*), common garter snake (*Thamnophis*



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SOURCE: NHC, 2021; USACE, 2021; ESA, 2022

American River Common Features Contract 3A

Figure 3-1
Natural Communities of the Lower American River
Contract 3A Project Site 1-1

ESA

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sirtalis), and gopher snake (*Pituophis melanoleucus*); and birds, including California quail (*Callipepla californica*), western bluebird (*Sialia mexicana*), lesser goldfinch *(Carduelis psaltria*), and barn swallow (*Hirundo rustica*).

Common small mammals expected to occur in grasslands include western harvest mouse (*Reithrodontomys megalotis*), deer mouse (*Mus musculus*), California vole (*Microtus californicus*), black-tailed jackrabbit (*Lepus californicus*), black-tailed deer (*Odocoileus hemionus*), coyote (*Canis latrans*), and Botta's pocket gopher (*Thomomys bottae*). Small rodents, reptiles, and invertebrates attract raptors (birds of prey) including red-tailed hawk (*Buteo jamaicensis*), red-shouldered hawk (*Accipiter striatus*), and American kestrel (*Falco sparverius*), and special-status birds such as white-tailed kite (*Elanus leucurus*), burrowing owl (*Athene cunicularia*), and Swainson's hawk (*Buteo swainsoni*).

Non-native grasslands are important foraging grounds for aerial and ground-foraging insect eaters such as *Myotis* bat species and pallid bats (*Antrozous pallidus*).

Mixed Oak Woodland

Mixed oak woodlands that occur in relatively higher elevation portions of the Project Area are dominated by coast live oak (*Quercus agrifolia*), valley oak (*Q. lobata*), and interior live oak (*Q. wislizeni*) (Figure 3-1). Northern California black walnut (*Juglans hindsii*) and California bay (*Umbellularia californica*) are less frequent contributors to the tree canopy.

The oak woodlands support a variety of understory plant species and vegetative structures. When no shrub layer is present, annual grassland is the dominant understory and includes the common species described above for this community. When oak woodlands support understory shrubs, common native shrubs observed include California rose (*Rosa californica*), California blackberry (*Rubus ursinus*), blue elderberry (*Sambucus nigra* ssp. *caerulea*), and coyote brush (*Baccharis pilularis* ssp. *consanguinea*). Himalayan blackberry (*Rubus armeniacus*), a non-native shrub occurs in the understory of oak woodlands.

Animals present in oak woodland habitat include those that rely heavily on acorns, such as the acorn disseminators California scrub jay (*Aphelocoma californica*), acorn woodpecker (*Melanerpes formicivorus*), and western gray squirrel (*Sciurus griseus*). Wild turkey (*Meleagris gallopavo*), California quail, and black-tailed deer use acorns as a major food source. Deer also use the foliage of several hardwoods.

Oak titmouse (*Baeolophus inornatus*), dark-eyed junco (*Junco hyemalis*), ash-throated flycatcher (*Myiarchus tuberculifer*), northern flicker (*Colaptes auratus*), lesser goldfinch, and great horned owl (*Bubo virginianus*) nest in woodland habitat. Cavity nesters include western bluebird and ash-throated flycatcher. Special-status birds such as Cooper's hawk (*Accipiter cooperii*) and sharp-shinned hawk (*A. striatus*) are known to nest in these woodlands. The pallid bat, also a special-status species, may inhabit these woodlands as well.

Amphibians and reptiles can be found on the woodland floor where moisture is retained under fallen wood and in tree crevices. Among these species are California toad (*Anaxyrus boreas halophilus*) and Sierran treefrog. Reptiles include western fence lizard, southern alligator lizard (*Elgaria multicarinata* ssp. *multicarinata*), ringneck snake (*Diadophis punctatus*), gopher snake, western rattlesnake (*Crotalus viridis helleri*), and California king snake (*Lampropeltis zonata*).

Wetlands and Other Waters

In October 2021, Environmental Science Associates biologists conducted an aquatic resources delineation for Site 1-1. Site 1-1 supports a total of 8.20 acres of potential waters of the United States: 4.68 acres of perennial riverine (i.e., American River), 2.33 acres of seasonally flooded forested wetlands that are comprised of a riparian woodland overstory and a riparian scrub understory, and 1.19 acres of scrub-shrub wetland (Appendix B). The term "forested wetlands" is used interchangeably in this Draft Supplemental EIR with the term "seasonally-flooded riparian habitat."

Riparian Scrub (Scrub-shrub)

Riparian scrub habitat consists of shrub-dominated areas that are subject to hydrologic influence from the American River. These areas are dominated by sandbar willow (*Salix exigua*), arroyo willow (*S. lasiolepis*), common button bush (*Cephalanthus occidentalis*), California rose, California blackberry, California wild grape, blue elderberry, and Himalayan blackberry.

Areas that experience higher velocity flows typically do not support herbaceous species, and cobbles tend to be the dominant ground cover. Areas that experience slower flows support a variety of herbaceous species including mugwort (*Artemisia douglasiana*), marsh brittlegrass (*Setaria parviflora*), Santa Barbara sedge (*Carex barbarae*), and beardless wildrye (*Elymus triticoides*).

Riparian scrub supports large numbers of insects and attracts passerine birds, including several species of flycatchers, warblers, and hummingbirds. In addition, several Federally listed species rely on riparian corridors, including valley elderberry longhorn beetle and western yellow-billed cuckoo (*Coccyzus americanus*).

Riparian Woodland

Riparian woodlands in the survey area are tree-dominated areas that are subject to frequent hydrologic influence from the LAR. In Site 1-1 riparian woodlands occur above and below the ordinary high water mark (OHWM). Riparian woodland below the OHWM is considered jurisdictional by the USACE. These areas are dominated by Fremont cottonwood (*Populus fremontii*), Goodding's willow (*Salix gooddingii*), box elder (*Acer negundo*), and California and non-native sycamore (*Platanus racemosa; Platanus* sp.). Oregon ash (*Fraxinus latifolia*), valley and live oak, and black locust as less frequent contributors to the tree canopy. Riparian woodlands support a variety of shrubs and herbs similar to those described above for the riparian scrub community.

Many wildlife species depend on riparian woodlands for water, food, and cover. Several raptor species—red-shouldered hawk, Cooper's hawk, great horned owl, and the State-listed Swainson's hawk—build their nests in the crowns of cottonwood, valley oak, and other large trees that grow on the landside and waterside of the levees. Natural cavities and woodpecker holes provide nesting sites for cavity-nesting species, including wood duck (*Aix sponsa*), American kestrel, tree swallow (*Tachycineta bicolor*), western bluebird, and western screech owl (*Megascops kennicottii*).

Riverine

Riverine habitat consists of inundated areas, including the American River. Areas in Site 1-1 did not support much submerged aquatic vegetation, but water fern (*Azolla fillicoloides*) was observed. Many bird species use open waters for resting, hunting, and escape cover. Common species include gulls, waterfowl, and osprey (*Pandion haliaetus*). Shorelines provide hunting grounds for wading birds such as herons and egrets, and for kingfisher, waterfowl, and shorebirds. Flycatchers, swallows, and other insectivorous birds catch their prey over water. Mammal species that occur in this habitat type include river otter (*Lontra canadensis*) and beaver (*Castor canadensis*). Instream woody structure along the shoreline of riverine habitat provides perching habitat for bird species such as black phoebe (*Sayornis nigricans*) and resting or basking habitat for other species (e.g., western pond turtle [*Actinemys marmorata*] and river otter).

Non-native Woodland

Non-native woodland includes single-species tree stands of either that typically consist of black locust (*Robinia pseudoacacia*) but can include tree of heaven (*Ailanthus altissima*), American elm (*Ulmus americana*), and blue gum (*Eucalyptus globulus*).

Bird species that may use this habitat types include scrub jay, Northern mockingbird (*Mimus polyglottos*), house finch (*Carpodacus mexicanus*), California quail, and western bluebird. Common mammals include black-tailed deer, raccoon (*Procyon lotor*), and opossum (*Didelphis virginiana*). Gopher snake and western fence lizard also occur in this habitat type.

Non-native and Invasive Plant Species

Non-native plant species occur in all plant communities, but most commonly in and adjacent to annual grasslands. Areas dominated by non-native vegetation are generally associated with recent human disturbance and include dredged mine tailings, maintained levee slopes, landscaped areas, and areas subject to frequent flood inundation or scour. Non-native weeds dominate some areas, especially along the side slopes of the levees. To a lesser degree, non-native plants are also found in other plant communities such as riparian and oak woodland. Non-native plants that adversely affect native species and natural communities (e.g., through competition for resources) are designated invasive plant species.

The California Invasive Plant Council maintains an inventory that categorizes non-native invasive plants that are determined to be a threat to the state's wildlands. The

categorization is based on an assessment of the ecological impacts of each plant based on the best available knowledge of invasive plant experts. **Table 3-3** lists each non-native plant species encountered during general biological resources reconnaissance surveys and its rating in the California Invasive Plant Council inventory. A complete list of plant species observed within Site 1-1 will be obtained during rare plant surveys scheduled for the following spring and summer.

TABLE 3-3
INVASIVE PLANT SPECIES IN SITE 1-1

Common Name	Scientific Name	Cal-IPC Rating
Bermuda grass	*Cynodon dactylon*	Moderate
Black locust	*Robinia pseudoacacia*	Limited
Cranes bill	*Geranium dissectum*	Limited
Foxtail barley	*Hordeum murinum*	Moderate
Himalayan blackberry	*Rubus armeniacus*	High
Italian thistle	*Carduus pycnocephalus*	Moderate
Ripgut brome	*Bromus diandrus*	Moderate
Rose clover	*Trifolium hirtum*	Limited
Soft brome	*Bromus hordeaceus*	Limited
Spanish broom	*Spartium junceum*	High
Tree of heaven	*Ailanthus altissima*	Moderate
Wild oat	*Avena barbata*	Moderate
Wild radish	*Raphanus sativus*	Limited
Yellow star thistle	*Centaurea solstitialis*	High

NOTES:

Cal-IPC = California Invasive Plant Council

[a] *High* = species have severe ecological impacts on the physical processes of plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.
Moderate = species have substantial and apparent—but generally not severe—ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, although establishment is generally dependent on ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.
Limited = species are invasive, but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.
Watch = species have been assessed as posing a high risk of becoming invasive in the future.

3.4.2 Methodology and Basis of Significance

3.4.2.1 Methodology

This analysis uses the same methodology described in Section 3.6.2 (pages 116–117) of the ARCF GRR FEIS/FEIR. However, the second significance threshold was expanded to include “State-protected wetlands,” to reflect an update made to Appendix G of the State CEQA Guidelines for 2019. Impacts on vegetation and wildlife resources were

evaluated based on data collected from biological resources surveys, and other resources such as aerial imagery and the Parkway Plan. The goals and objectives of the Parkway Plan were also considered in the impact analysis, to assess whether constructing the alternatives would be in conflict with those goals and objectives. Impacts on vegetation and wildlife were evaluated based on construction activities and on habitat changes expected to occur after construction of the project.

3.4.2.2 Basis of Significance

The Proposed Action would result in a significant effect related to vegetation and wildlife if it would result in any of the following:

- Substantial loss, degradation, or fragmentation of any natural communities or wildlife habitat.
- Substantial effects on a sensitive natural community, including State- or Federally-protected wetlands and other waters of the United States, as defined by Section 404 of the Clean Water Act.
- Substantial reduction in the quality or quantity of important habitat, or access to such habitat for wildlife species.
- Substantial conflict with the American River Parkway Plan or the Sacramento County Tree Preservation Ordinance.
- Substantial adverse effects on native woodland habitats in the American River Parkway, resulting in the loss of vegetation and wildlife.

3.4.3 Impact Analysis

3.4.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the present level of risk of flooding due to levee failure because of seepage, slope stability, overtopping, or other erosion concerns.

Section 3.6.3 (pages 117–118) of the ARCF GRR FEIS/FEIR analyzed impacts to vegetation and wildlife under the No Action/No Project Alternative. The ARCF GRR FEIS/FEIR stated that it would be speculative to consider that additional work would be conducted to address seepage, slope stability, overtopping, and erosion issues. If a flood event were to occur, the Sacramento area would remain at risk of a possible levee failure.

The ARCF GRR FEIS/FEIR determined that given the lack of specific erosion protection measures, levees along the American River would continue to erode, resulting in the loss of bankside vegetation. It is foreseeable that this condition would require recurring repairs at high levee risk areas within the river corridor as a result of incremental or episodic flooding damage. Furthermore, flood fighting activities that would occur during a high-

flow emergency response could involve the rapid placement of large rock along the levee slope, which would adversely affect future vegetation growth along the American River levees. The ARCF GRR FEIS/FEIR determined that as levees and berms along the American River erode, riparian habitat and native wood habitats would be lost. In addition, polluted flood flows could disrupt or contaminate Federal and State-protected wetlands, including seasonally flooded forested wetlands. Trees that could be lost but are protected by local tree ordinances would likely trigger major post-flood recovery revegetation. The No Action Alternative could also be inconsistent with the Parkway Plan, which calls for bank scour and erosion to be "proactively managed" to protect public infrastructure, habitat, and recreational resources. In addition, should flood fighting activities be insufficient to prevent levee failure, a large area of vegetation and terrestrial wildlife habitat could be inundated, leading to a substantial reduction in the quality and quantity of habitats for wildlife species. The effects of catastrophic levee failure and associated repairs on vegetation and wildlife would be significant. However, the timing, duration, and magnitude of a flood event, and whether a flood would require nominal or major repairs, is unpredictable, and therefore a precise significance determination cannot be made.

3.4.3.2 Proposed Action

Anticipated Effects on Vegetation

Section 3.6.4 (pages 121–123) of the ARCF GRR FEIS/FEIR analyzed impacts on vegetation and wildlife along the entire leveed stretch of the American River. The ARCF GRR FEIS/FEIR assessed effects on nesting birds, other terrestrial wildlife, and sensitive habitat types, including wetlands, and considered conflicts with local plans and policies including the Parkway Plan. The ARCF GRR FEIS/FEIR further evaluated the specific effects of launchable rock trenches and bank protection, including the loss of riparian habitat that would occur during their installation. Riparian habitat as defined by the USFWS for this Project includes native and non-native woody vegetation (woodland and scrub habitat) between the levees above and below the OHWM. In areas where the riparian habitat occurs below the OHWM and meets the three wetland parameters (hydrology, hydric soils, and hydrophytic vegetation), riparian habitat has been classified as forested wetlands (Appendix B). The ARCF GRR FEIS/FEIR estimated that up to 65 acres of riparian habitat would be removed throughout the lower American River, including reaches not within the scope of the current Proposed Action, if Alternative 2 of the ARCF GRR FEIS/FEIR were fully constructed. The impacts to riparian habitat discussed in the section below were anticipated as part of the 65 acres in the ARCF GRR FEIS/FEIR. However, because there are multiple phases of this project, Project Partners and the USFWS have agreed upon creating an impact log that tracks the running total of impacts resulting from implementation of the ARCF. If the 65 acres is exceeded, additional analysis and consultation will be required. In addition, the ARCF GRR FEIS/FEIR determined that construction work would also occur on grassland habitats within the Parkway.

The analysis in the ARCF GRR FEIS/FEIR determined that constructing new bank protection features would involve removing grasses, shrubby vegetation, riparian woodland, and instream woody material, resulting in the loss of 80,825 linear feet of

shaded riverine aquatic (SRA) habitat, a key component of salmonid habitat. Large trees would be protected in place during construction, to the extent possible. In addition, the analysis determined that although the impacts of bank protection work would be partially self-mitigated with the installation of a waterside planting bench, and removal of instream woody material would be avoided to the extent possible, some of the degradation of natural communities, effects on sensitive natural communities, and reduced quality and quantity of wildlife habitat would remain because of the lag time between the time trees would be planted and the time they would mature to a point that they could provide the same functional values as the vegetation removed during construction. Although the design of the Proposed Action would allow for retaining some large riparian trees, others would be removed, reducing the shade and organic input to the adjacent aquatic habitat. Similarly, most existing instream woody material would be removed. The on-site replacement habitat would be designed to provide both terrestrial riparian habitat values as well as adjacent aquatic habitat (SRA habitat) values. Instream woody material in the form of trees and logs, held in place with ropes, are included in the design. However, shade and aquatic vegetation would require a substantial period of time to develop in order to provide the same values as are present under existing conditions. The ARCF GRR FEIS/FEIR determined that the short-term impact on both riparian and SRA habitats would be significant and unavoidable, but that long-term impacts would be mitigated by on-site and off-site riparian and SRA habitat creation.

Under the Proposed Action, impacts from construction activities to install exposed and buried rock structures, and a planting bench at Site 1-1 would include the loss of 1.25 acres of riparian woodland and 2.67 acres of riparian scrub in the footprint of the Project Area (**Table 3-4**). Riparian habitat would also be damaged and removed within construction access areas and haul routes, resulting in removal of 2.08 acre of riparian woodland and 1.11 acre of riparian scrub habitat.

The impacts of the Proposed Action on natural communities, including sensitive natural communities, and wildlife habitat would be significant. Implementation of Mitigation Measures VEG-1, VEG-2, VELB-1, and SRA-1 set forth in the FEIS/FEIR and augmented herein to meet site-specific conditions would reduce this impact to a less-than-significant level, because of a combination of avoidance, minimization, and compensation by creation of on-site and off-site riparian habitat.

Anticipated Effects on Wildlife

As described in Section 3.6, *Special Status Species,* riparian vegetation along the lower American River provides habitat for the valley elderberry longhorn beetle (VELB). The riparian corridor is also considered to be suitable stop-over habitat for the western yellow-billed cuckoo. To mitigate the impacts on habitat for these species, the Project Partners would create replacement riparian habitat at ratios for VELB and western yellow-billed cuckoo of 3:1 (acres replaced to acres affected) and 2:1, respectively. A total of 3.92 acres of riparian habitat would be affected at Site 1-1 erosion protection areas and up to an additional 3.18 acres in the construction access areas and haul routes. Some of the riparian habitat in access areas may be avoided, if feasible. To mitigate these impacts to

TABLE 3-4
EXISTING AND RESTORED HABITAT AREAS IN SITE 1-1

Habitat Area	Habitat Type	Total Habitat Impacted[3,4]	Total Habitat Created[3]	Erosion Protection Area Above OHWM Habitat Impacted (acres)	Erosion Protection Area Above OHWM Habitat Created[1] (acres)	Erosion Protection Area Below OHWM Habitat Impacted (acres)[2]	Erosion Protection Area Below OHWM Habitat Created[1] (acres)	Access Areas Above OHWM Habitat Impacted (acres)	Access Areas Above OHWM Habitat Created (acres)	Access Areas Below OHWM Habitat Impacted (acres)	Access Areas Below OHWM Habitat Created (acres)
Riparian Woodland	Native woodland	2.34	2.57	0.19	0.13	0.60	2.16	0.77	0.02	0.78	0.26
	Non-native woodland	0.99	0.00	0.15	0.00	0.31	0.00	0.48	0.00	0.05	0.00
	Subtotal	3.33	2.57	0.34	0.13	0.91	2.16	1.25	0.02	0.83	0.26
Riparian scrub	Native scrub	3.53	1.64	1.00	0.30	1.50	1.21	0.74	0.04	0.29	0.09
	Non-native scrub	0.24	0	0.02	0.00	0.15	0.00	0.01	0.00	0.06	0.00
	Subtotal	3.77	1.64	1.02	0.30	1.65	1.21	0.75	0.04	0.36	0.09
Herbaceous	Native grassland	0.00	6.63	0.00	0.67	0.00	0.00	0.00	5.95	0.00	0.01
	Non-native grassland	4.92	0.00	0.09	0.00	0.00	0.00	4.90	0.00	0.00	0.00
	Subtotal	4.92	6.63	0.09	0.67	0.00	0.00	4.90	5.95	0.00	0.01
Other	Unvegetated	14.11	0.00	0.06	0.00	0.18	0.00	13.78	0.00	0.09	0.00
	Open water	4.49	0.00	0.00	0.00	2.31	0.00	0.00	0.00	2.18	0.00
	Subtotal	18.60	0.00	0.06	0.00	2.49	0.00	13.78	0.00	2.27	0.00
	Site 1-1 Total	**30.62**	**10.84**	**1.44**	**1.10**	**5.05**	**3.37**	**20.68**	**6.01**	**3.46**	**0.36**

NOTE:

1 On-site created habitat acreage estimates are based on 65% project designs.

2 Impacts to riparian habitat below the OHWM includes forested wetlands and mitigation is included in the riparian mitigation numbers.

3 Totals in the text may vary slightly from the table due to rounding

4 Caltrans will be conducting a project within the same footprint and is currently scheduled to proceed prior to the start of the Proposed Action. Total impacts presented here include impacts to the area Caltrans would conduct construction. If Caltrans proceeds on schedule, approximately 0.51 acre of riparian impacts would be subtracted from the total impacts presented here.

Site 1-1, the Project Partners would create a total of 16.98 acres of riparian habitat, which would include 4.21 acres of on-site riparian habitat in the Project Area. In addition, 12.77 acres of off-site riparian habitat would be created at off-site locations including, but not limited to Glenn Hall, Rio Americano East and West, Rossmoor East and West, and at Arden Pond (see Section 3.6, *Special Status Species*). Further, the Proposed Action would affect 4.92 acres of non-native grassland in the Project Area. Non-native grassland would be replaced on-site with 6.63 acres of native grassland, which represents a much higher habitat value than non-native grassland. This area would be restored after construction by seeding native grassland plant species in this area.

After construction, the Proposed Action would also provide improved habitat for juvenile salmonids and species that typically occur at the water's edge, such as western pond turtle and river otter, by providing instream woody material. Surveys along the summer/ fall (flows of 2,660 cfs) and winter/spring (flows of 3,900 cfs) shorelines at Site 1-1 recorded 12 percent and 11 percent instream woody structure, respectively (Appendix C). Designs for Site 1-1 include instream cover of approximately 50 percent at the shorelines.

As described in Section 3.6.4 of the ARCF GRR FEIS/FEIR, USACE analyzed effects on nearshore aquatic habitat (i.e., SRA habitat) using the Standard Assessment Methodology (SAM) model developed by a multi-agency team including USACE, DWR, USFWS, and NMFS. More information on the methods used for the SAM analysis and the results of the analysis are included in Section 3.6, *Special Status Species*. The results show that plantings in the bench would be expected to provide similar or better habitat values for salmonid species over time compared to the existing condition. However, a temporal impact on SRA habitat would occur, which Project Partners would mitigate by restoring SRA habitat at mitigation sites in the American River Parkway (beyond those identified in Section 2.3.3 *Mitigation Sites*) that would be selected and designed in coordination with NMFS and USFWS. This off-site SRA habitat creation would be developed as part of the consultation under the Federal Endangered Species Act. There would be short-term unavoidable impacts on riparian habitat, but the long-term effects on vegetation and wildlife would be mitigated to a less-than-significant level by providing higher long-term habitat values on-site and off-site. Off-site actions include restoring habitat at mitigation sites in the American River Parkway that would be selected and designed in coordination with NMFS and USFWS and restoration actions at elderberry transplant sites. Additional discussion can be found in Section 3.6, *Special Status Species (*Chapter 2, *Project Description)* of the *American River Watershed Common Features, Water Resources Development Act of 2016, American River Contract 1 Supplemental Environmental Assessment/Supplemental Environmental Impact Report* and *Special Status Species (*Chapter 2, *Project Description)* of the *American River Watershed Common Features, Water Resources Development Act of 2016, American River Contract 2 Supplemental Environmental Impact Statement/Supplemental Environmental Impact Report*.

Riparian habitat present within Subreach 1 is considered a sensitive natural community. A total of 4.21 acres would be created within Site 1-1 and 12.77 acres would be created off-site (for a description of the Glenn Hall Park mitigation site and the two Rio

Americano mitigation sites, the two Rossmoor mitigation sites and Arden Pond mitigation site see Chapter 2, *Project Description* of the *American River Watershed Common Features, Water Resources Development Act of 2016, American River Contract 1 Supplemental Environmental Assessment/Supplemental Environmental Impact Report* and the *Project Description* of the *American River Watershed Common Features, Water Resources Development Act of 2016, American River Contract 2 Supplemental Environmental Impact Statement/Supplemental Environmental Impact Report* to address impacts on VELB and western yellow-billed cuckoo habitat at a 3:1 and 2:1 ratio, respectively. The Proposed Action would result in a net increase in riparian woodland (including forested wetland) acreage within and near the Project Area. State and Federally-protected wetlands and other jurisdictional waters are also considered to be protected sensitive natural communities and have been included in the impacts and mitigation described above in this paragraph. Based on the design of the Proposed Action, riparian habitat (including forested wetland) impacted below the OHWM (3.38 acres, see Table 3-4) would be replaced at a ratio of 2:1 for a total of 6.72[21] acres of riparian habitat to be located below the OHWM. Additional off-site riparian habitat would be created at mitigation sites in the American River Parkway that would be selected and designed in coordination with NMFS and USFWS as part of the consultation under the Endangered Species Act and that would be located below the OHWM (see SRA-1 for additional discussion). No additional mitigation for impacts on jurisdictional waters is proposed. Given the above considerations, the impact of the project on sensitive natural communities, including riparian habitat and wetlands and other waters under State and Federal jurisdiction, would be less than significant with mitigation.

Construction activities for the Proposed Action could interfere with local movement of native resident or migratory wildlife species. Grading and other ground-disturbing activities could temporarily disrupt the movement of reptiles and amphibians, such as the western pond turtle. It is anticipated that reptiles and amphibians would continue to move to and through nearby unaffected aquatic or upland habitat away from active construction activities during construction. Effects of the project on access of these species to their habitat would be temporary and these species would be expected to return to areas affected by construction once such work is completed. Additionally, similar areas of riparian and grassland habitat in reaches along the Lower American River unaffected by the Proposed Action could be utilized by these species. Equipment and personnel movement and vegetation removal during construction could interfere with the movement of other terrestrial wildlife species such as small mammals or birds; however, these activities are not expected to result in substantial effects on the movement of these species because they are mobile and can move away from construction activities to unaffected areas.

Noise from construction of the Proposed Action could temporarily alter the foraging patterns of resident wildlife species but is not anticipated to substantially interfere with

[21] A total of 3.77 acres of riparian habitat is impacted below the OHWM; however, 0.39 acres is elderberry shrub canopy, which is mitigated at the higher 3:1 ratio. Thus, only 3.36 acres will be mitigated at the 2:1 ratio.

foraging because these species could move to nearby unaffected habitat. The impacts from construction on nesting birds specifically, including the effects of removal of riparian trees, are discussed in Section 3.6, *Special Status Species*. Although construction work for the Proposed Action could temporarily alter the movement patterns of native resident or migratory wildlife species, it is not anticipated to significantly interfere with the movement of these terrestrial species, which could move to nearby unaffected habitat. Furthermore, construction would be temporary, limiting the potential for long-term impacts on the migration and movement of terrestrial wildlife. Once mitigation plantings become established, Site 1-1 would provide riparian habitat that is expected to be of higher quality than existing habitat, because habitat features that benefit native species would be included in the design, and the site would be managed for the establishment and persistence of native trees, shrubs and herbaceous plants. Over the long-term, the Proposed Action would not substantially reduce the quality or quantity of important habitat, or access to such habitat for wildlife species, although temporary loss of habitat would occur, which would be mitigated by off-site mitigation and/or purchase mitigation credits. Therefore, the impact of the Proposed Action on the quantity and quality of wildlife habitat and access by wildlife to habitat would be less than significant with mitigation (see mitigation discussion, below).

The American River Parkway Plan provides a guide for land use decisions affecting the Parkway, and the plan specifically addresses the preservation, use, development, and administration of the Parkway. With the on-site replacement of riparian habitat, the Proposed Action would ensure that there would be no net impacts on lands designated by the Parkway Plan as Protected Areas or Nature Study Areas. Although an initial loss of riparian habitat within the Parkway would occur, eventually the Parkway would experience a net increase in the extent of riparian habitat, or credits would be purchased at a NMFS-approved mitigation bank. This increase in riparian vegetation is consistent with Terrestrial Resource Policy 3.2 of the Parkway Plan, which calls for the protection, enhancement, and expansion of the Parkway's native willow, cottonwood, and valley oak–dominated riparian and upland woodlands that provide important SRA, seasonal floodplain, and riparian habitats. Consequently, the impact of the Proposed Action on local conservation plans, such as the Parkway Plan, would be less than significant.

The Project Area provides woody material, such as fallen logs, tree limbs, and branches that are lying on the floodplain surface. This instream woody material (native wood habitat) is particularly important when located on the winter/spring and summer/fall waterline, where it provides cover and foraging substrate for juvenile salmonids. This wood habitat also provides cover and perching habitat for terrestrial species. For example, various mammals (e.g., river otter) or reptiles (e.g., western pond turtle) use this wood as resting or basking habitat, and birds (e.g., black phoebe) use the wood as perches. Wood (e.g., harvested orchard trees) would be installed on the floodplain as part of the Proposed Action Although that project element is specifically designed to replace the wood present along the average winter/spring and summer/fall waterline as salmonid habitat, placing the wood would also mitigate the removal of wood habitat for terrestrial

species, and the impact of the Proposed Action on woody debris habitat for terrestrial species would be less than significant.

ARCF GRR FEIS/FEIR Mitigation Measures

The following summarizes ARCF GRR FEIS/FEIR mitigation measures (pages 128 to 129) that are incorporated into the Proposed Action (with specific mitigation site information added):

> **Mitigation Measure VEG-1: Retain, Protect, and Plant Trees On-Site.** Project designs would be refined to reduce impacts on vegetation and wildlife to the extent practicable. Refinements implemented to reduce the loss of riparian habitat would include reducing the impact footprint, constructing bank protection rather than launchable rock trench whenever feasible, and designing planting benches.
>
> Where practicable, trees would be retained in locations where the bank protection and planting bench are constructed. Trees would be protected in place along the natural channel during the placement of rock. Additional plantings would be installed on the newly constructed bench to provide habitat for fish and avian species. The planting bench would be used where practicable to minimize impacts on fish and wildlife species. The on-site habitat would be created in accordance with the ARCF GRR Habitat Mitigation, Monitoring, and Adaptive Management Plan (HMMAMP), which includes conceptual mitigation proposals, performance standards, and adaptive management tasks.
>
> **Mitigation Measure VEG-2: Compensate for Riparian Habitat Removal.** To compensate for the removal of riparian habitat (including forested wetlands), replacement habitat would be created at a ratio of 2:1 to account for the temporal loss of habitat while newly created habitat is growing. Species selected to compensate for the riparian corridor removal would be consistent with the approved list of trees, shrubs, and herbaceous plants native to the Parkway. The riparian replacement habitat would create habitat connectivity and wildlife migratory corridors that would provide for the habitat needs of important native wildlife species without compromising the integrity of the flood control facilities, the Parkway's flood conveyance capacity, and the Parkway management goals in the Parkway Plan. Some of the replacement riparian habitat would be planted on the planting benches. Additionally, to comply with the Parkway Plan, lands within the Parkway would be evaluated for compensation opportunities. The exact location of the compensation lands in the Parkway would be coordinated with the Sacramento County Department of Regional Parks during the design phase of the project and would comply with the Parkway Plan's objectives and goals. It is assumed that sufficient lands are available within the Parkway. The replacement habitat would be created in accordance with the ARCF GRR HMMAMP, which includes conceptual mitigation proposals, performance standards, and adaptive management tasks.
>
> Within the Project Area, Project Partners have designated Erosion Protection and Work Area construction zones. In Work Area zones, some or all the vegetation would be removed for site access, haul routes, and staging areas. Then, upon

completion of the project, work zones would be seeded with native grassland species. Erosion Protection construction zones would require that most riparian vegetation be removed, but riparian vegetation would be planted at a planting bench and within the site on buried revetment or among the revetment. To compensate for the temporal loss of riparian vegetation and SRA habitat, creation of off-site habitat would also occur at sites that would be protected in perpetuity. These sites would include a mitigation site in the American River Parkway that would be selected and designed in coordination with NMFS and USFWS as part of the consultation under the Endangered Species Act. In addition, riparian habitat would be planted at previously-designated and approved elderberry shrub mitigation areas (the Glenn Hall Park mitigation site and the two Rio Americano mitigation sites described in Chapter 2, *Project Description* of the *American River Watershed Common Features, Water Resources Development Act of 2016, American River Contract 1 Supplemental Environmental Assessment/ Supplemental Environmental Impact Report*) and the two Rossmoor mitigation sites and Arden Pond mitigation site described in Chapter 2, *Project Description* of the *American River Watershed Common Features, Water Resources Development Act of 2016, American River Contract 2 Supplemental Environmental Impact Statement/Supplemental Environmental Impact Report*.

Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds. This mitigation measure is described in Section 3.6, *Special Status Species*.

Summary

The ARCF GRR FEIS/FEIR concluded that mitigation measures would reduce potential long-term impacts on vegetation and wildlife resources to a less-than-significant level because once vegetation has fully developed, the habitat quality of the Project Area would be similar or better than under existing conditions. The ARCF GRR FEIS/FEIR also concluded that short-term impacts on vegetation and wildlife resources associated with construction within the American River Parkway would be significant and unavoidable. Construction of the Proposed Action would not result in short-term impacts on vegetation and wildlife resources that would be new or more severe than those addressed in the ARCF GRR FEIS/FEIR and, therefore, those construction-related short-term impacts on vegetation and wildlife are already adequately addressed in the ARCF GRR FEIS/FEIR.

Under the Proposed Action, the mitigation for loss of riparian habitat would be satisfied as part of compensatory mitigation for the loss of suitable habitat for VELB and western yellow-billed cuckoo. For more details on the compensatory mitigation requirements for the VELB and western yellow-billed cuckoo, see Section 3.6, *Special Status Species.*

In summary, to address the impacts on the 7.10 acres of riparian habitat (including forested wetland below OHWM) and VELB habitat that would be affected by the Proposed Action at Site 1-1, replacement riparian habitat would be created, including 4.21 acres on-site and 12.77 acres off-site. Implementing this compensatory mitigation would reduce long-term impacts on any natural community or wildlife habitat within the

Project Area to a less-than-significant level by creating on-site and off-site riparian habitat. Short-term impacts on vegetation and wildlife habitat would remain significant and unavoidable because it would take several years (e.g., 10 to 15 years) for riparian habitat to become fully mature and provide the same values as existing riparian habitat.

Because impacts on migratory and movement conditions for terrestrial wildlife would be minor or temporary in duration and mitigated by on-site replacement, off-site mitigation, the impacts on the quality or quantity of important habitat, or access to such habitat for wildlife species, would be less than significant with on-site and off-site mitigation, and no additional mitigation measures are necessary.

With implementation of the riparian habitat mitigation that addresses impacts on VELB and western yellow-billed cuckoo, the potential for conflicts with the Parkway Plan would be less than significant because a net long-term increase in the extent of riparian habitat within the Parkway would occur.

Because the project would involve anchoring of new large instream woody material to replace the wood present along the shoreline that would be removed during construction activities, the impact of the Proposed Action on native wood habitat with the Parkway would be less than significant.

Implementation of the above mitigation measures from the ARCF GRR FEIS/FEIR with added specificity regarding mitigation sites would reduce the impact of the Proposed Action on vegetation and wildlife to a less-than-significant level in the long-term. Short-term impacts on vegetation and wildlife habitat would remain significant and unavoidable.

3.5 Fisheries

3.5.1 Environmental Setting

3.5.1.1 Regulatory Setting

Section 3.7 (page 132) of the ARCF GRR FEIS/FEIR identified Federal or State environmental laws and regulations that apply to fisheries resources. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations that apply to the ARCF Project and described the status of compliance with those laws and regulations. There has been no change to the applicable listed regulations related to fisheries. The American River Parkway Plan discusses management of fish habitat and is described in Section 3.4.1.1 of this Draft Supplemental EIR.

3.5.1.2 Existing Conditions

Section 3.7 (pages 131–135) of the ARCF GRR FEIS/FEIR describes the regional and local setting in the vicinity of the Project Area for the Proposed Action. The following provides additional information specific to the Project Area:

Native and non-native fish species that can be found in the Lower American River are listed on page 133 of the ARCF GRR FEIS/FEIR.

The ARCF GRR FEIS/FEIR identified the important attributes of fish habitat present in the Lower American River as aquatic vegetation and shaded riverine aquatic (SRA) habitat. The ARCF GRR FEIS/FEIR defined aquatic vegetation as floating, submerged, and emergent vegetation that serves as hiding cover and an invertebrate food production base for nearly all aquatic species. The ARCF GRR FEIS/FEIR defined SRA habitat as overhanging canopy cover.

In 2019 and 2020, Environmental Science Associates biologists conducted aquatic vegetation and shoreline habitat surveys in the Project Area.[22] In the Project Area, aquatic vegetation was present along 15 percent of the total summer/fall seasonal shoreline and 33 percent of the total winter/spring shoreline. Approximately 3,344 linear feet of shoreline habitat was present along the summer/fall seasonal shoreline in the Project Area of Site 1-1 (**Appendix C**).

3.5.2 Methodology and Basis of Significance

3.5.2.1 Methodology

This analysis generally uses the same methodology as described in Section 3.7.2 (page 136) of the ARCF GRR FEIS/FEIR. This involves analyzing how the expected changes to aquatic vegetation and SRA habitat may affect populations of native fish species and how construction activities may affect native fish. Effects on special-status fish species are addressed in Section 3.6 and impacts on natural communities (including riparian vegetation) are addressed in Section 3.4.

3.5.2.2 Basis of Significance

This analysis uses the same basis of significance as described in Section 3.7.2 (page 136) of the ARCF GRR FEIS/FEIR, as restated below.

The Proposed Action would result in a significant effect related to fisheries if it would:

- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites;
- Substantially conflict with the American River Parkway Plan;
- Substantially reduce the habitat of a fish population; or
- Cause a fish population to drop below self-sustaining levels.

[22] Environmental Science Associates. 2020. American River Common Features 2016 Project American River Erosion Protection: American River Contract 3 Detailed Resource Assessment Report Prepared for Sacramento Area Flood Control Agency. Sacramento, CA. October 2020.

3.5.3 Impact Analysis

3.5.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the risk of flooding within the Sacramento metropolitan area due to levee failure caused by seepage, slope stability, overtopping, or other erosion concerns would remain unchanged from its present level.

The ARCF GRR FEIS/FEIR concluded that the effects of flood fighting on fish in the event of a levee failure could be significant. If flood fighting were to occur to stop erosion and prevent levee failure, placing large rock along the levee slope would prevent or impede the future growth of trees and vegetation on the levee slopes, which would substantially reduce fish habitat. Emergency cleanup and earth-moving activities could also result in an increase in sediment and turbidity that would adversely affect migration, spawning, or rearing habitat. Given the nature of emergency cleanup activities, implementing best management practices and measures to reduce effects on fish may not be feasible, and populations may drop below self-sustaining levels.

In addition, high flows in the American River would cause levees and berms to erode. As the banks of the river erode, important SRA habitat would be lost. Flood fight activities to save levee structures would likely occur during a high-flow emergency response. All of these effects on fisheries would likely be significant, although no precise significance determination is possible.

3.5.3.2 Proposed Action

In 2015, NMFS issued a Biological Opinion (BO) for the ARCF GRR consultation for levee improvements and bank protection along the Sacramento River, levee improvements along Arcade, Magpie, and Dry/Robla Creeks, widening the Sacramento Bypass and Weir, and bank protection along the lower American River. The NMFS BO evaluated impacts to Sacramento River winter-run and Central Valley spring-run Chinook salmon, California Central Valley steelhead, and green sturgeon, as well as their critical habitat. The BO evaluated potential impacts based on rough estimates and preliminary designs for the proposed project. Consultation with NMFS was reinitiated for the ARCF GRR considering new site-specific details for the Proposed Action and a new BO was issued in May 2021.[23] The following impact analysis reflects the impacts of the Proposed Action.

Of the 3,344 linear feet within the construction footprint for Site 1-1, an estimated 8.41 acres of SRA and benthic habitats would be affected by construction activities. This estimate was calculated using the slope area approach. The slope area calculation

[23] National Marine Fisheries Service. 2021. Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the American River Common Features General Reevaluation Report Reinitiation. May 12, 2021.

involves measuring the levee slope below the waterline (in this case the OHWM/ 18,500 cfs line) and the natural benthic substrate out to the limit of effect.

As part of the permit conditions of the NMFS 2021 BO, Project Partners will develop and implement a compensatory mitigation accounting plan to ensure the tracking of compensatory measures associated with the implementation of the Proposed Action. The accounting plan will verify that tracking of impacts as site designs are developed to ensure incidental take is not exceeded and identify when triggers for reinitiation have been met.

Rock placement during bank protection activities would likely disturb native, resident fish by increasing noise, water turbulence, and turbidity, causing them to move away from the area of rock placement and put them at a slightly increased risk of predation.

Construction of bank protection would disturb soils and lead to increased turbidity in the nearshore aquatic habitat. The increase in suspended solids and turbidity would generally be short term. Sedimentation and turbidity increases may affect fish physiology, behavior, and habitat.

Direct effects on resident native fish species habitat would be limited because existing conditions would not be worsened by project construction, which would include creating planting benches to provide shade and instream woody material elements of SRA habitat. A temporary loss of SRA habitat would occur, but over the long term, the erosion protection sites would support higher quality SRA habitat than under existing conditions (Appendix C). Temporary reductions in SRA habitat would be compensated for by creation of riparian habitat along the LAR within the American River Parkway (see Section 3.6, *Special Status Species*). Because the LAR is expected to recover in the long term and provide improved habitat for fish species, the project would not conflict with the river's outstandingly remarkable value of fisheries designation under the Federal Wild and Scenic Rivers Act, and would not be in conflict with the American River Parkway Plan (see Section 3.4, *Vegetation and Wildlife*).

At Site 1-1, the Proposed Action would construct a launchable rock toe, running continuously along the water-side edge of Site 1-1, designed to deploy once erosion has removed the bank material beneath it. The launchable rock toe along the entire alignment of Site 1-1 would be constructed outside of the natural river channel, with no significant direct construction effects on native fish species. Although the toe would be constructed primarily of large diameter riprap, a surface bedding layer of cobbles and gravels would be added to reduce fisheries impacts. At extreme flood flows, when the rock would launch, the mobilized large rock could physically hurt fish in the channel; however, it is assumed that if no rock were to be launched the levee would overtop or breach, causing fish to be transported out of the floodway where they would most likely die. A planting bench would be constructed, along with IWM, which would improve foraging and refuge requirements for fisheries. The design of Site 1-1 includes tie-backs that are irregularly spaced to limit the erosion extents and potential subsequent damage to a planting bench during an unlikely launching event.

Implementation of the mitigation measures identified below would reduce the impact of construction of the erosion protection measures on fisheries resources to a less-than-significant level.

ARCF GRR FEIS/FEIR Mitigation Measures

Mitigation Measures FISH-1 and FISH-2 contained in the ARCF GRR FEIS/FEIR (pages 143–144) are summarized below and incorporated into the Proposed Action. Mitigation Measure FISH-4 in Section 3.6, *Special Status Species*, below, is new and designed to address additional impacts of the Proposed Action as required by the NMFS 2021 BO:

- Based on input from NMFS, the in-water work window was changed from the period of August 1 to November 30 as previously allowed in the 2015 NMFS BO, to the period of July 1 to October 31, because this was determined to be appropriate for the salmonids occurring in the American River.

  Mitigation Measure FISH-1: Observe In-Water Work Windows. In-water construction would be restricted to the general estimated work window of July 1 through October 31. The exception being that in-water work necessary for dewatering activities would begin June 1. During preconstruction engineering and design, the work window may be adjusted on a site-specific basis, considering periods of low fish abundance, and in-water construction outside the principal spawning and migration season. Typical construction season generally corresponds to the dry season, but construction may occur outside the limits of the dry season, only as allowed by applicable permit conditions.

  Mitigation Measure FISH-2: Analyze Hazardous Materials Spills and Implement Measures to Control Contamination. Because of the deleterious effects on native resident fish of numerous chemicals used in construction, if a hazardous materials spill does occur, a detailed analysis would be performed immediately by a registered environmental assessor or professional engineer to identify the likely cause and extent of contamination. This analysis would conform to American Society for Testing and Materials Standards and would include recommendations for reducing or eliminating the source or mechanisms of contamination. Based on this analysis, USACE and their contractors, in coordination with CVFPB, would select and implement measures to control contamination, with a performance standard that surface water quality and groundwater quality must be returned to baseline conditions.

Additionally, the previously adopted mitigation measures that address riparian habitat removal in the ARCF GRR FEIR/FEIS Vegetation and Wildlife Section (Section 3.6) and summarized in Section 3.4 of this document (Mitigation Measures VEG-1 and VEG-2) would reduce impacts on fisheries resources. BMPs associated with construction related impacts such as dust, runoff, turbidity, and spills that are summarized in Section 3.3, *Hydrology and Water Quality* of this Supplemental EIR (Mitigation Measure WQ-1) and are consistent with the Water Quality and Groundwater Resources Section of the ARCF GRR FEIR/FEIS Section (Section 3.5) that would also reduce impacts on fisheries

resources. Lastly, mitigation measures that address impacts on listed fish species from the ARCF GRR FEIR/FEIS Special Status Species Section (Section 3.8; Mitigation Measures FISH-3 and SRA-1) and new Mitigation Measure FISH 4, which includes new measures outlined in the 2021 NMFS BO, are summarized in Section 3.6 of this document and would also reduce impacts on fisheries resources.[24]

Summary

Implementation of the previously adopted mitigation measures in the ARCF GRR FEIS/FEIR, as modified with the Proposed Action site-specific measures as described in the mitigation measures above would reduce the impact of the Proposed Action on fisheries resources to a less-than-significant level.

3.6 Special Status Species

3.6.1 Environmental Setting

3.6.1.1 Regulatory Setting

Section 3.6 (pages 144 and 145) of the ARCF GRR FEIS/FEIR presents Federal and State laws governing special-status species. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations and described the status of overall ARCF GRR project compliance with those laws and regulations. While most of these laws and regulations are unchanged, one of the applicable laws and regulations related to special-status species have changed, as summarized below. The American River Parkway Plan which addresses management of special-status species habitats is described in Section 3.4.1.1, above.

Changes to the Federal Endangered Species Act are discussed below.

The Federal Government has adopted several rules regarding implementation of the Federal Endangered Species Act[25]; however, these changes do not substantially change the application of NEPA to the Proposed Action.

Other relevant laws and regulations that have remained unchanged are:

- National Environmental Policy Act of 1969, as amended (42 USC 4321 et seq.)
- Wild and Scenic Rivers Act (16 USC 1217 et seq.)
- California Endangered Species Act
- California Environmental Quality Act, as amended

[24] National Marine Fisheries Service. 2021. Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the American River Common Features General Reevaluation Report Reinitiation. May 12, 2021.

[25] U.S. Fish and Wildlife Service and National Oceanic and Atmospheric Administration. 2019. Endangered and Threatened Wildlife and Plants; Regulations for Interagency Cooperation. 84 Federal Register 44976, August 27, 2019.

3.6.1.2 Existing Conditions

Section 3.8 (pages 144–195) of the ARCF GRR FEIS/FEIR describes the regional and local setting in the vicinity of the Project Area for the Proposed Action. The following provides additional information specific to the Project Area. For the purposes of this section, the Project Area includes Subreach 1, Site 1-1.

Updated lists of regionally-occurring special-status species were compiled from a nine-quadrangle search of the California Natural Diversity Database (CNDDB);[26] a nine-quadrangle search of the California Native Plant Society (CNPS) database;[27] a search of the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation endangered species database;[28] and literature regarding the biological resources of the region. The search encompassed the following 7.5-minute U.S. Geological Survey topographic quadrangles:

Taylor Monument	Rio Linda	Citrus Heights
Sacramento West	Sacramento East	Carmichael
Clarksburg	Florin	Elk Grove

Species on the list were assessed on the basis of habitat requirements and distribution relative to the location of and vegetation communities occurring in and around the Project Area. **Tables 3-5** and **3-6** provide comprehensive lists of the special-status species considered in this analysis.

The "Potential to Occur" categories are defined as follows:

- **None: The Project Area does not provide habitat and occurs outside of the known extant geographic and/or elevation range for the species.**
- **Unlikely**: The Project Area provides only limited and low-quality habitat for a particular species and the known range for a particular species may be outside of the Project Area.
- **Likely**: The Project Area and/or immediate vicinity provides suitable habitat for a particular species.
- **Present:** The species (or evidence of its presence) was observed during biological resources surveys conducted within the Project Area (see below).

[26] California Department of Fish and Wildlife. 2021. California Natural Diversity Database (CNDDB) search for the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. RareFind 5.0. Version 5.2.14. Biogeographic Data Branch. Information accessed November 11, 2021.

[27] California Native Plant Society. 2021. Special-status Plants documented on the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Rare Plant Program. Available: www.rareplants.cnps.org. Accessed December 12, 2021.

[28] U.S. Fish and Wildlife Service. 2021. List of Threatened and Endangered Species that may occur in you Proposed Project Location or may be Affected by your Proposed Project. Consultation Code: 08ESMF00-2022-SLI-0370; Event Code: 08ESMF00-2022-E-01127. Species list generated November 15, 2021.

TABLE 3-5
REGIONALLY OCCURRING SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE PROJECT AREA

List Type	Animal Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Listed Species	Invertebrates	vernal pool fairy shrimp *Branchinecta lynchi*	FT	NL	Vernal pools, swales, and ephemeral freshwater habitat. Most commonly found in small (< 0.05 acre), clear to tea-colored vernal pools with mud, grass, or basalt bottoms in unplowed grasslands.	**None.** Vernal pool landscapes and hydrology not present.
		monarch butterfly *Danaus plexippus*	FC	NL	Occurs in woodland areas in wind protected groves with a nearby nectar and water source. Relies on milkweed, on which they lay their eggs, and is the sole host plant for larva.	**None.** Occurs along the coastal range from Mendocino down to Baja. Closest known occurrence is 40 miles to the west near Fairfield.
		valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	FT	NL	Mature elderberry shrubs with stems one inches in diameter or greater at ground level.	**Present.** Elderberry plants are present in the Project Area. Exit holes observed.
		vernal pool tadpole shrimp *Lepidurus packardi*	FE	NL	Typically occurs in large, deep vernal pools, but also uses smaller pools within larger vernal pool complexes.	**None.** Vernal pool landscapes and hydrology not present.
	Amphibians	California tiger salamander *Ambystoma californiense*	FT	CT	Grassland, oak savannah, and edges of mixed woodland and lower elevation coniferous forest. Spends much time underground in mammal burrows. Breeds in temporary ponds such as vernal pools but may also breed in slower parts of streams with few predators.	**Unlikely.** Grassland habitat is present, but vernal pool landscapes are not present.
		California red-legged frog *Rana draytonii*	FT	CSC	Inhabits ponds, quiet pools of streams, marshes, and riparian areas with dense, shrubby, or emergent vegetation. Likely extirpated from the Central Valley since the 1960s.	**None**. The Project Area occurs outside of the known extant geographic range for this species.
	Reptiles	giant garter snake *Thamnophis gigas*	FT	CT	Permanent or semi-permanent water and dense emergent vegetation; freshwater marshes, streams, and canals.	**Unlikely.** The American River lacks suitable habitat.
	Birds	tricolored blackbird *Agelaius tricolor*	NL	CT	Breeds near freshwater in dense emergent vegetation or dense brush.	**Unlikely.** Marginal nesting habitat in the willow riparian area. Closest known occurrence is greater than 5 miles away.

TABLE 3-5 (CONTINUED)
REGIONALLY OCCURRING SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE PROJECT AREA

List Type	Animal Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Listed Species (cont.)	Birds (cont.)	golden eagle *Aquila chrysaetos*	NL	FP	Uncommon permanent resident and migrant throughout California, except in the central portion of the Central Valley. Inhabits rolling foothills, mountainous areas, sage-juniper flats, and deserts.	**None.** The Project Area does not provide habitat and occurs outside of the known extant geographic range.
		Swainson's hawk *Buteo swainsoni*	NL	CT	Often nests near riparian systems, but also uses lone trees in agricultural fields or pastures and roadside trees when available and adjacent to suitable foraging habitat.	**Likely.** Riparian provides suitable nesting habitat. Known to occur within 0.5 miles of the Project Area.
		western yellow-billed cuckoo *Coccyzus americanus occidentalis*	FT	CE	In California, western cuckoos are largely restricted to river valleys in the north-central (e.g., Sacramento River) and southwestern (e.g., Kern River) regions. Western cuckoos prefer to nest in willow (*Salix* spp.), cottonwood (*Populus* spp.), and mesquite (*Prosopis* spp.), but they will also use orchards.	**Likely.** Vocalization documented in 2020 approximately four miles upstream on a densely forested island in the American River. Submarginal nesting habitat occurs in the Project Area, but it may be used by transient birds.
		bank swallow (nesting) *Riparia riparia*	NL	CT	Colonial nester along coastal areas and rivers in Northern and Central California. Nesting restricted to vertical banks or bluffs with friable soils suitable for burrowing. Vegetation is varied; nesting sites are selected mostly based on the suitability of the nesting bank.	**Likely.** Previously observed approximately 0.5 miles downstream of the Project Area. No bank nesting habitat observed within the Project Area, but may use the Project Area for foraging.
		least Bell's vireo *Vireo bellii pusillus*	FE	CE	Summer resident in low riparian habitats in Southern California. Previously known to occur throughout the Central Valley. Typically nest in willow or scrub habitat adjacent to waterways.	**Unlikely.** Marginal nesting habitat in the willow riparian area. Only known occurrence, since the early 1900s, in northern California is greater than 10 miles to the west.
	Fishes	Delta smelt *Hypomesus transpacificus*	FT	CE	Euryhaline (tolerant of a wide salinity range) species that is confined to the San Francisco Estuary, principally in the Delta and Suisun Bay	**None.** The Project Area occurs outside of the known extant geographic range for this species.
		Sacramento River winter-run Chinook salmon *Oncorhynchus tshawytscha*	FE	CE	Cold, freshwater streams with suitable gravel for spawning; rears in seasonally inundated floodplains, rivers, and tributaries, and in the Delta.	**Likely.** Juveniles hatched in the Sacramento River may enter the Lower American River for non-natal refugia and rearing after emigrating from their natal Sacramento River.

TABLE 3-5 (CONTINUED)
REGIONALLY OCCURRING SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE PROJECT AREA

List Type	Animal Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Listed Species (cont.)	Fishes (cont.)	Central Valley spring-run Chinook salmon *Oncorhynchus tshawytscha*	FT	CT	Cold, freshwater streams with suitable gravel for spawning; rears in seasonally inundated floodplains, rivers, and tributaries, and in the Delta.	**Likely.** Juveniles hatched in tributaries of the Sacramento River may use the Lower American River for non-natal rearing and refugia after emigrating from their natal rivers and streams.
		California Central Valley steelhead *Oncorhynchus mykiss*	FT	NL	Cold, freshwater streams with suitable gravel for spawning; rears in seasonally inundated floodplains, rivers, and tributaries, and in the Delta.	**Present.** Adults spawn in Lower American River gravel and juveniles rear in and emigrate through the Lower American River.
		North American green sturgeon *Acipenser medirostris*	FT	NL	Cold, freshwater streams with suitable gravel for spawning; rears in seasonally inundated floodplains, rivers, and tributaries, and in the Delta.	**Unlikely.** No evidence of occurrence in the Lower American River exists, but Federal critical habitat is designated in the LAR from its confluence with the Sacramento River upstream to the State Route 160 bridge.
		longfin smelt *Spirinchus thaleichthys*	FC	CT	Requires cold, pure freshwater to pure seawater, spawns in freshwater.	**None.** The Project Area occurs outside of the known extant geographic range for this species.
Non-listed Special-Status Species	Invertebrates	Crotch bumble bee *Bombus crotchii*	NL	NL	Open grasslands and scrub habitat in California with available underground nesting habitat in fossorial animal burrows.	**Likely.** Annual grassland and scrub habitats are available and several commonly visited flower species may occur in the survey area. The closest sighting was 12 miles to the east, just east of Mather Air Force Base, in 2020.
		western bumble bee *Bombus occidentalis occidentalis*	NL	NL	Nests, forages, and overwinters in meadows and grasslands with abundant flowers and available underground nesting habitat in fossorial animal burrows. Range is throughout California, but more common in the Sierra Nevada and Coast Ranges.	**Unlikely.** Grassland habitat is available, but the western bumble bee is uncommon in the Central Valley.
	Amphibians	western spadefoot *Spea hammondii*	NL	CSC	Grasslands within lowland washes, floodplains, alluvial fans, and playas. Breeds almost exclusively in vernal pools or similar seasonal wetlands.	**Unlikely.** Grassland habitat is present, but vernal pool landscapes are not present.

TABLE 3-5 (CONTINUED)
REGIONALLY OCCURRING SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE PROJECT AREA

List Type	Animal Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Non-listed Special-Status Species (cont.)	Reptiles	western pond turtle *Actinemys marmorata*	NL	CSC	Variety of aquatic habitats, both permanent and intermittent, with suitable aerial and aquatic basking sites. Needs upland habitats for nesting, overwintering, and aestivating.	**Likely**. Observed upstream of the Project Area during 2018 surveys.
	Birds/ MBTA-Protected Birds and California Fish and Game Code Subsections 3503 and 3503.5	burrowing owl *Athene cunicularia*	NL	CSC	Nests and roosts in burrows, usually of ground squirrels, in grasslands and ruderal habitats.	**Likely.** Potential nesting habitat along the levees where several ground squirrel burrows were observed. Most recent CNDDB occurrence is from 2016 approximately 9 miles to the south. Several older occurrences within 5 miles of the Project Area, but most areas have since been developed.
		purple martin *Progne subis*	NL	CSC	Nests mostly in old woodpecker cavities; also nests in human-made structures. Nest is often located in tall, isolated trees/snags.	**Likely**. Potential nesting habitat in the Project Area. Known to occur on bridge and overpass structures within 1 mile of the Project Area.
		Cooper's hawk *Accipiter cooperii*	NL	WL	A common migrant and winter resident. Nests and forages in a wide variety of forest and woodland habitats.	**Likely**. Known to occur within 1.5 miles of the Project Area.
		great egret (rookery site) *Ardea alba*	NL	NL	Colonial nester in large trees. Rookery sites located near marshes, tide flats, irrigated pastures, and margins of rivers and lakes.	**Likely**. Potential nesting habitat in the survey area. There is a documented egret rookery approximately 0.5 miles downstream and another approximately 6 miles upstream of the survey areas on the American River.
		great blue heron (rookery site) *Ardea herodias*	NL	NL	Variety of habitats near sources of water. Nests commonly high in the tops of secluded large snags or live trees.	**Likely**. Potential nesting habitat in the survey area. There is a documented heron rookery approximately 0.5 miles downstream and another approximately 6 miles upstream of the survey areas on the American River.
		Ferruginous hawk *Buteo regalis*	NL	WL	Inhabits natural grasslands mostly in the northwest including Canada, eastern Oregon, Nevada, northern Arizona, New Mexico, and Texas.	**Unlikely.** Grassland provides habitat, but the Project Area occurs outside of the known extant geographic range for nesting.

TABLE 3-5 (CONTINUED)
REGIONALLY OCCURRING SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE PROJECT AREA

List Type	Animal Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Non-listed Special-Status Species (cont.)	Birds/ MBTA-Protected Birds and California Fish and Game Code Subsections 3503 and 3503.5 (cont.)	white-tailed kite (nesting) *Elanus leucurus*	NL	FP	Savanna, open woodland, marshes, partially cleared lands and cultivated fields, mostly in lowland habitats. Nests in trees, often near marshes.	**Likely**. CNDDB records within 0.5 miles of the survey areas documented as recently as 2009.
		merlin *Falco columbarius*	NL	WL	Breeds in patchy shrub/grassland from northward tree limit in Alaska, Canada, and Eurasia southward to southern Alaska, Oregon, Idaho, South Dakota, northern Great Lakes region, New York, Maine, Nova Scotia, British Isles, and central Russia.	**Unlikely.** Grassland provides habitat, but the Project Area occurs outside of the known extant geographic range for nesting.
		song sparrow – "Modesto" population *Melospiza melodia* (year round)	NL	CSC	Nests and forages primarily in emergent marsh, riparian scrub, and early successional riparian forest habitats in the north-central portion of the Central Valley; infrequently in mature riparian forest and sparsely vegetated ditches and levees. Forages primarily on exposed ground or in leaf litter.	**Unlikely.** Marginal habitat in the Project Area and only one historical record from the early 1900s within 10 miles. Most recent occurrence is from 2011 approximately 10 miles to the west.
		double-crested cormorant *Phalacrocorax auritus*	NL	WL	Colonial nester on costal cliffs, offshore islands, and along lake margins in tall trees.	**Unlikely.** Marginal habitat in the Project Area. Central Valley observations from 2005 include Folsom Lake and Black Crown Lake.
	Mammals	pallid bat *Antrozous pallidus*	NL	CSC	Arid deserts and grasslands of low elevations in California; often near rocky outcrops and water. Usually roosts in rock crevices or buildings, less often in caves, tree hollows, mines, etc. Prefers narrow crevices in caves as hibernation sites.	**Likely.** This species may roost in buildings and bridges in the Project Area; however, roosting is not reported by the CNDDB within 5 miles of the Project Area or within the nine-quadrangle area that includes the Project Area.
		western red bat *Lasiurus blossevillii*	NL	CSC	Associated with riparian habitat. Roosts primarily in the foliage of trees or shrubs, but may also occasionally use caves. Day roosts commonly in edge habitats.	**Likely**. This species may roost in mixed oak woodland habitat in the Project Area; however, roosting is not reported by the CNDDB within 5 miles of the Project Area or within the nine-quadrangle area that includes the Project Area.

TABLE 3-5 (CONTINUED)
REGIONALLY OCCURRING SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE PROJECT AREA

List Type	Animal Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Non-listed Special-Status Species (cont.)	Mammals (cont.)	American badger *Taxidea taxus*	NL	CSC	Requires sufficient food, friable soils to excavate dens and pursue prey, and relatively open, uncultivated ground.	**Likely.** The potential exists for this species to use the Parkway. Although no signs of presence were observed, there were small fossorial mammal burrows and ground squirrel activity. There are two known occurrences within 5 miles; however, the most recent sighting was from 1991.
	Fishes	Sacramento perch *Archoplites interruptus*	NL	CSC	Currently found mostly in warm, turbid, moderately alkaline reservoirs or farm ponds, generally where other centrarchids are absent.	**None.** The Project Area does not provide habitat.
		Sacramento Splittail *Pogonichthys macrolepidotus*	NL	CSC	Spawning takes place among submerged and flooded vegetation in sloughs and the lower reaches of rivers.	**None.** The Project Area occurs outside of the known extant geographic range for this species.
		Central Valley fall-/late fall-run Chinook salmon *Oncorhynchus tshawytscha*	NL	CSC	Cold, freshwater streams with suitable gravel for spawning; rears in seasonally inundated floodplains, rivers, and tributaries, and in the Delta.	**Present.** Adults spawn in Lower American River gravel and juveniles rear in and emigrate through the Lower American River.
		hardhead *Mylopharodon conocephalus*	NL	CSC	Low to mid-elevation streams with clear, deep pools and runs with slow velocities.	**Present.** Known to occur in the Lower American River.
		western river lamprey *Lampetra ayresi*	NL	CSC	Cold, freshwater streams with suitable gravel for spawning and sandy to silty backwaters or stream edges for larval rearing.	**Present.** Adults spawn in Lower American River gravel and larvae rear in the Lower American River.

NOTES:
CDFW = California Department of Fish and Wildlife; CNDDB = California Natural Diversity Database; Delta = Sacramento–San Joaquin Delta; Parkway = American River Parkway

FEDERAL
FC = Federal candidate for listing; FE = Federally listed as endangered; FT = Federally listed as threatened; MBTA = Migratory Bird Treaty Act; NL = no listing

STATE
CSC = California species of special concern; CE = State listed as endangered; CP = State proposed for listing; CT = State listed as threatened; FP = California fully protected species; WL = watch list; NL = no listing

SOURCES:
California Department of Fish and Wildlife. 2021. California Natural Diversity Database (CNDDB) search for the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. RareFind 5.0. Version 5.2.14. Biogeographic Data Branch. Information accessed January 12, 2021.

TABLE 3-5 (CONTINUED)
REGIONALLY OCCURRING SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE PROJECT AREA

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Melcer, Ron Jr., Senior Environmental Scientist–Supervisor, Delta Stewardship Council, email communication with Gerrit Platenkamp, Project Manager, Environmental Science Associates, July 28, 2019.

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U.S. Fish and Wildlife Service. 2015. Memorandum to U.S. Army Corps of Engineers, Sacramento District: *Formal Consultation on the American River Common Features (AFRC) Project, Sacramento County, California,* September 2015.

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Western Bat Working Group. 2005. Western Bat Working Group Species Accounts for all Bats. Available: http://www.wbwg.org/speciesinfo/species_accounts/allbats.pdf.

Zeiner, D. C., W. F. Laudenslayer Jr., and K. E. Mayer (comp. eds.). 1988. *California's Wildlife. Volume I: Amphibians and Reptiles.* California Statewide Wildlife Habitat Relationships System. Sacramento: California Department of Fish and Game.

———. 1990a. *California's Wildlife. Volume II: Birds.* Sacramento: California Department of Fish and Game.

———. 1990b. *California's Wildlife. Volume III: Mammals*. Sacramento: California Department of Fish and Game.

TABLE 3-6
REGIONALLY OCCURRING SPECIAL-STATUS PLANTS CONSIDERED IN THE PROJECT AREA

Listing Status	Common Name Scientific Name	Fed Status	State Status	CRPR or Other Status	Habitat	Potential to Occur
Listed Species	Boggs Lake hedge-hyssop *Gratiola heterosepala*	NL	CE	1B.2	Clay soils; margins of marshes and swamps; vernal pools. 10-2,375 meters. Evident and Identifiable from April–August.	**Unlikely.** Suitable habitat not present. Botanical surveys will be conducted in spring and summer 2022 to confirm absence.
	Mason's lilaeopsis Lilaeopsis masonii	NL	CR	1B.1	Freshwater or brackish marshes and swamps; riparian scrub. 0–10 meters. Evident and Identifiable from June–September.	**Unlikely.** No occurrences this far upriver. Botanical surveys will be conducted in spring and summer 2022 to confirm absence.
	slender Orcutt grass *Orcuttia tenuis*	FT	CE	1B.1	Vernal pools, often gravelly. 35 – 1,760 meters. Evident and Identifiable from May – September (October).	**None.** Suitable habitat not present.
	Sacramento Orcutt grass *Orcuttia viscida*	FE	CE	1B.1	Vernal pools. 30 – 100 meters. Evident and Identifiable from April – July (September).	**None.** Suitable habitat not present.
Non-listed Species	Ferris' milk-vetch *Astragalus tener* var. *tener*	NL	NL	1B.1	Vernally mesic meadows and seeps; sub-alkaline grasslands. 1–60 meters. Evident and Identifiable from April–May.	**None.** Suitable alkaline substrate not present in the Project Area.
	valley brodiaea *Brodiaea rosea* ssp. *vallicola*	NL	NL	4.2	Silty, sandy and gravelly loam soils; valley and foothill grasslands along swales; vernal pools. 10-335 meters. Grows in grasslands on old alluvial terraces that have developed a perched water table, in vernal pool landscapes. Evident and Identifiable from April–May (June).	**None.** Vernal pool landscapes and hydrology not present.
	bristly sedge *Carex comosa*	NL	--	2B.1	Coastal prairie; margins of marshes and swamps; valley and foothill grassland. 0–625 meters. Evident and Identifiable from May–September.	**Unlikely**. Submarginal habitat occurs in the Project Area. Botanical surveys will be conducted in spring and summer 2022 to confirm absence.
	pappose tarplant *Centromadia parryi* ssp. *parryi*	NL	NL	1B.2	Often on alkaline soils; chaparral; coastal prairie; meadows and seeps; coastal salt marshes and swaps; vernally mesic valley and foothill grassland. 0–420 meters. Evident and Identifiable from May–November.	**None.** Suitable alkaline substrate not present in the Project Area.
	Parry's rough tarplant *Centromadia parryi* ssp*. rudis*	NL	NL	4.2	Valley and foothill grassland on alkaline, vernally mesic soils; seeps; sometimes roadsides; vernal pools. 0–100 meters. Evident and Identifiable from May–October.	**None.** Suitable alkaline substrate not present in the Project Area.

TABLE 3-6 (CONTINUED)
REGIONALLY OCCURRING SPECIAL-STATUS PLANTS CONSIDERED IN THE PROJECT AREA

Listing Status	Common Name Scientific Name	Fed Status	State Status	CRPR or Other Status	Habitat	Potential to Occur
Non-listed Species (cont.)	Peruvian dodder *Cuscuta obtusiflora* var. *glandulosa*	NL	NL	2B.2	Freshwater marshes and swamps. 15–280 meters. Evident and Identifiable from July–October.	**Unlikely**. Suitable habitat present, but last seen in 1948 in Merced County. Observations in Sacramento County have not yet been verified. Botanical surveys will be conducted in spring and summer 2022 to confirm absence.
	dwarf downingia *Downingia pusilla*	NL	NL	2B.2	Mesic valley and foothill grassland; vernal pools; roadside ditches. 1–445 meters. Evident and Identifiable from March–May.	**None.** Suitable habitat not present.
	stinkbells *Fritillaria agrestis*	NL	NL	4.2	Clay or sometimes serpentine soils; chaparral; cismontane woodland; pinyon and juniper woodland; valley foothill grassland. 10–1,555 meters. Evident and Identifiable from March–June.	**None.** Suitable habitat on suitable soil is not present.
	hogwallow starfish *Hesperevax caulescens*	NL	NL	4.2	Valley and foothill grassland on mesic, clay soils; vernal pools. 0–505 meters. Evident and Identifiable from March–June.	**None.** Suitable habitat on suitable soil is not present.
	woolly rose-mallow *Hibiscus lasiocarpos* var. *occidentalis*	NL	NL	1B.2	Often in riprap on sides of levees; freshwater marshes and swamps. 0–120 meters. Evident and Identifiable from June–September.	**Unlikely**. Submarginal habitat occurs in the Project Area. Botanical surveys will be conducted in spring and summer 2022 to confirm absence.
	Northern California black walnut *Juglans hindsii*	NL	NL	1B.1	Deciduous tree found in riparian forests and riparian woodlands up to 460 meters. Widely naturalized as a result of agricultural use as a rootstock for English walnuts. Considered native and special status in stands at three sites in California only. Evident and Identifiable from April–May.	**Unlikely**. None of the special status native stands are near the Project Area.
	Ahart's dwarf rush *Juncus leiospermus* var. *ahartii*	NL	NL	1B.2	Vernal pools; mesic valley and foothill grassland. 30–229 meters. Evident and Identifiable from March–May.	**None.** Project Area outside elevation range.
	legenere *Legenere limosa*	NL	NL	1B.1	Vernal pools. 1–880 meters. Evident and Identifiable from April–June.	**None.** Suitable habitat not present.
	Heckard's pepper-grass *Lepidium latipes* var. *heckardii*	NL	NL	1B.2	Alkaline flats within valley and foothill grassland. 2–200 meters. Evident and Identifiable from March–May.	**None.** Suitable soils not present.

TABLE 3-6 (CONTINUED)
REGIONALLY OCCURRING SPECIAL-STATUS PLANTS CONSIDERED IN THE PROJECT AREA

Listing Status	Common Name Scientific Name	Fed Status	State Status	CRPR or Other Status	Habitat	Potential to Occur
Non-listed Species (cont.)	Sanford's arrowhead *Sagittaria sanfordii*	NL	NL	1B.2	Assorted shallow freshwater marshes and swamps. 0–650 meters. Evident and Identifiable from May–October (November).	**Unlikely.** Marginal habitat present. Botanical surveys will be conducted in spring and summer 2022 to confirm absence.
	Suisun Marsh aster *Symphyotrichum lentum*	NL	NL	1B.2	Brackish and freshwater marshes and swamps. 0–3 meters. Evident and Identifiable from (April) May–November.	**Unlikely.** Marginal habitat present. Botanical surveys will be conducted in spring and summer 2022 to confirm absence.
	saline clover *Trifolium hydrophilum*	NL	NL	1B.2	Marshes and swamps; mesic, alkaline valley and foothill grassland; vernal pools. 0–300 meters. Evident and Identifiable from April–June.	**None.** Suitable soils not present.

NOTES:

CRPR = California Rare Plant Rank

Status Codes:

FEDERAL

FE = listed as endangered under the Federal Endangered Species Act; FT = listed as threatened under the Federal Endangered Species Act; NL = no listing

STATE

SE = listed as endangered under the California Endangered Species Act; ST = listed as threatened under the California Endangered Species Act; NL = no listing

CALIFORNIA RARE PLANT RANK (CRPR)

Rank 1A = Plants presumed extirpated in California and either rare or extinct elsewhere; Rank 1B = Plants rare, threatened, or endangered in California and elsewhere; Rank 2A = Plants presumed extirpated in California, but more common elsewhere; Rank 2B = Plants rare, threatened, or endangered in California, but more common elsewhere.
An extension reflecting the level of threat to each species is appended to each rarity category as follows:
.1—Seriously endangered in California
.2—Fairly endangered in California
.3—Not very endangered in California

SOURCES:

California Department of Fish and Wildlife. 2021. California Natural Diversity Database (CNDDB). RareFind 5.0. Version 5.2.14. Biogeographic Data Branch.

California Native Plant Society. 2021. Special-status Plants documented on the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Rare Plant Program. Available: www.rareplants.cnps.org. Accessed January 12, 2021.

Preston, R. E. 2013. A Revision of *Brodiaea coronaria* (Asparagaceae: Brodiaeoideae): Morphometric Analysis and Recognition of New and Emended Taxa. *Systematic Botany* 38(4):1012–1028, DOI: 10.1600/036364413X674913.

U.S. Fish and Wildlife Service. 2021. List of Threatened and Endangered Species that may occur in you Proposed Project Location or may be Affected by your Proposed Project. Consultation Code: 08ESMF00-2021-SLI-0720; Event Code: 08ESMF00-2021-E-02098. Species list generated January 14, 2021.

Species unlikely to occur within the Project Area are not discussed further. The analysis below considers those special-status species that have been categorized as likely to occur or are present in the Project Area.

Federally Listed and State-Listed Wildlife Species

Valley Elderberry Longhorn Beetle

Section 3.8.1 (page 149) of the ARCF GRR FEIS/FEIR describes the ecology of valley elderberry longhorn beetle (VELB) in the Project Area. Updated occurrence information is presented below.

There are documented occurrences of VELB in Site 1-1 from 1984, when adult beetles were captured. Additional beetles were observed in 2013 and fresh exit holes were documented in 2006[29] and in 2018[30] upstream of the survey area on the lower American River in Subreach 2. In 2019 and 2020, surveys were completed to update and document the current elderberry and VELB populations within Site 1-1.[31]

Surveys were conducted in accordance with the USFWS 2017 *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle.*[32] This guidance document superseded the 1999 *Conservation Guidelines for Valley Elderberry Longhorn Beetle*.[33] Global Positioning System (GPS) point locations and data with sub-meter accuracy were taken for elderberry shrubs with stems measuring 1 inch or greater in diameter at ground level. Visual estimates of shrub height and maximum diameter (canopy) were recorded. All shrubs within the Project limits were located in riparian habitat. To ensure consistency with the previous methodology as used in the ARCF 2015 Biological Assessment, a geographic information system (GIS) was used to group elderberry stems into clusters if the stems were within 16 feet of each other (as described in the survey protocol developed by Talley and others for the original 2011 surveys). Each elderberry cluster is considered equivalent to a "shrub."

In addition to mitigating direct impacts on elderberry shrubs, the 2017 Framework focuses on maintaining the connectivity of riparian habitats. Not only do riparian habitats provide habitat used by VELB for mating, foraging, and dispersal, but studies have

29 California Department of Fish and Wildlife. 2019. California Natural Diversity Database (CNDDB) search for the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle, and surrounding eight quadrangles. Information accessed January 12, 2021

30 Environmental Science Associates. 2018. Lower American River Subreach 2 Draft Final Resource Assessment. November 2018.

31 Environmental Science Associates. 2020. American River Common Features 2016 Project American River Erosion Protection: American River Contract 3 Detailed Resource Assessment Report Prepared for Sacramento Area Flood Control Agency. Sacramento, CA. October 2020.

32 U.S. Fish and Wildlife Service. 2017. Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle (Desmocerus californicus dimorphus). Sacramento, California. 28 pp.

33 U.S. Fish and Wildlife Service. 1999. *Conservation Guidelines for the Valley Elderberry Longhorn Beetle.* Sacramento, California. 15 pp.

shown that healthy riparian habitats increase elderberry recruitment and health. The USFWS 2017 Framework states (pages 7–8):

> *Because the elderberry is the sole host plant of the VELB, any activities that adversely impact the elderberry shrub may also adversely impact the VELB. Adverse impacts to elderberry shrubs can occur either at a habitat scale or at an individual shrub scale. Activities that reduce the suitability of an area for elderberry plants or elderberry recruitment and increase fragmentation may have adverse impacts to mating, foraging, and dispersal of VELB. The patchy nature of VELB habitat and habitat use makes the species particularly susceptible to adverse impacts from habitat fragmentation.*

Occupied clusters of elderberry stems in the Parkway are approximately 25 to 50 meters (82 to 164 feet) apart.[34] Therefore, the area within 25 meters of the shrubs is considered a zone of riparian habitat where elderberry plants could be recruited to provide habitat that could be easily reached by VELB, if they were to occupy existing elderberry plants. Thus, surveys also determined the presence of suitable habitat for identified elderberry shrubs.

To determine elderberry shrub habitat, collected data was evaluated and assessed based on Talley et al. 2006; Talley et al. 2007;[35] Holyoak et al. 2008;[36] and Vaghti et al. 2009.[37] Elevation of floodplain, associated overstory species, and vegetation canopy structure were considered in determining the affected elderberry shrub habitat[38]. Analysis of elderberry shrub elevation data showed that elderberry shrubs rarely occur within frequently inundated areas. In a study upstream in Subreach 2, only 2 out of 599 shrubs (0.3 percent) for which elevation data was available in the Project Area occurred below the elevation of the 2-year flood (i.e., 18,500 cfs- or the OHWM), which is at about 26 feet in elevation on the National Geodetic Vertical Datum (NGVD). In Site 1-1, there is one area on the downstream end where a handful of elderberry shrubs occur below the 2-year flood elevation. Elderberry shrubs are more likely found at 12 feet above the summer low flow (at 17.4 feet or 2,660 cfs),[39] which, on average, is at about 30 feet NGVD in the Project Area. Analysis of the plant communities that elderberry shrubs are associated with found that elderberry shrubs are most commonly found in elderberry

34 Talley, T. S., D. Wright, and M. Holyoak. 2006. *Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*) 5-Year Review: Summary and Evaluation*. Prepared for U. S. Fish and Wildlife Service, Sacramento Office, Sacramento, California.

35 Talley, T. S., E. Fleishman, M. Holyoak, D. D. Murphy, and A. Ballard. 2007. Rethinking a rare-species conservation strategy in an urban landscape: The case of the valley elderberry longhorn beetle. Biological Conservation 135:21–32.

36 Holyoak, M., and M. Koch-Munz. 2008. The effects of site conditions and mitigation practices on success of establishing the Valley elderberry longhorn beetle and its host plant, blue elderberry. Environmental Management 42:444–457.

37 Vaghti, M. G., M. Holyoak, A. Williams, T. S. Talley, and A. K. Fremier. 2009. Understanding the Ecology of Blue Elderberry to Inform Landscape Restoration in Semiarid River Corridors. Environmental Management 43:28-37.

38 Elderberry shrubs above and below the OHWM will be transplanted as feasible and mitigated for at a 3:1 ratio. Riparian habitat within 82 feet of an elderberry shrub that occurs above the OHWM is considered associated elderberry habitat and will also be mitigated at a 3:1. Riparian habitat below the OHWM is not suitable elderberry shrub habitat and is not considered associated habitat; thus, it will be compensated at a 2:1 ratio.

39 Vaghti, M. G., M. Holyoak, A. Williams, T. S. Talley, and A. K. Fremier. 2009. Understanding the Ecology of Blue Elderberry to Inform Landscape Restoration in Semiarid River Corridors. Environmental Management 43:237

savanna, and black walnut– or black locust–dominated communities, but can be found in virtually all woodland and scrub communities above the OHWM. Woodland or scrub communities occurring above the OHWM and within 82 feet of an elderberry shrub canopy were considered suitable habitat for VELB. Non-native grasslands, open water, paved surfaces, and barren land were not considered habitat for VELB. **Figure 3-2** shows elderberry shrubs and habitat for the VELB within the Project Area.

Western Yellow-Billed Cuckoo

Western yellow-billed cuckoo is Federally-listed as threatened and State-listed as endangered. Section 3.8.1 (page 151) of the ARCF GRR FEIS/FEIR describes the ecology of this species in the Project Area. In May 2017 the USFWS received a petition to delist the Western distinct population segment (DPS) of the yellow-billed cuckoo. Based on the USFWS review of the petition it was determined in June of 2018 that substantial scientific or commercially available data indicating the delisting was provided and that further review of the potential delisting was warranted. However, in September of 2020, it was determined that delisting was not warranted. The Western DPS yellow-billed cuckoo is currently under 5-year review. For the most recent assessment of the species range-wide status please refer to the October 3, 2014, *Determination of Threatened Status for the Western Distinct Population Segment of the Yellow-billed Cuckoo (Coccyzus americanus occidentalis)* (79 FR 59991). On April 21, 2021, the USFWS issued a final rule designating critical habitat for the western yellow-billed cuckoo (86 FR 20798). The Project Area is outside the designated critical habitat.

Until very recently, the CNDDB's last documented occurrence of western yellow-billed cuckoo in the vicinity of the Project Area is from the late 1800s. However, on July 27, 2019, a cuckoo vocalization was documented approximately 4 miles upstream on a heavily forested island in the American River.[40] A single vocalization was heard but no additional information was gathered. Based on habitat quality, this may have been a transient bird moving through from breeding sites along the Sacramento River.

The Project Area provides marginal remnant riparian habitat that may be used for foraging or dispersal (Figure 3-2). However, the riparian habitat in the Project Area does not meet the typical size requirements (25 contiguous acres or more) for home ranges of nesting western yellow-billed cuckoos.[41]

Swainson's Hawk

Swainson's hawk is State-listed as threatened. Section 3.8.1 (pages 151–152) of the ARCF GRR FEIS/FEIR describes the ecology of this species in the Project Area. Updated occurrence information is presented below.

[40] Ron Melcer Jr., Senior Environmental Scientist–Supervisor, Delta Stewardship Council, email communication with Gerrit Platenkamp, Project Manager, ESA, July 28, 2019.

[41] U.S. Fish and Wildlife Service. 2001. Endangered and Threatened Wildlife and Plants; 12-Month Finding for a Petition to List the Yellow-Billed Cuckoo (*Coccyzus americanus*) in the Western Continental United States. *Federal Register* 66:38611–38626, July 25, 2001.

Two CNDDB occurrences of Swainson's hawk were recorded in the Site 1-1 survey area in 2010 and 2012. In 2017, a nest with two nestlings near Northgate Boulevard was identified approximately 2 miles downstream of Site 1-1 in the Parkway and another nest was identified in 2007 at Camp Pollock.[42] In addition, a nest has been regularly documented just upstream of Howe Avenue,[43] and a potential nesting pair was observed in May 2019 by a DWR survey team just downstream of Watt Avenue, approximately 1.4 miles east of the Project Area.[44]

The large trees in the riparian corridor within the Project Area and adjacent parks provide suitable nesting sites and annual grasslands and nearby parks provide suitable foraging habitat.

Bank Swallow

Bank swallow is State-listed as threatened. It is a neotropical migrant that arrives in California in May and breeds before returning to South America in late July or August. Bank swallows inhabit primarily riparian and lowland habitats with vertical banks, bluffs, and cliffs where they dig holes for nesting in sandy or fine-textured soil.[45] The species' range in California is estimated to have been reduced by 50 percent since 1900.[46] Bank swallow was formerly more common as a breeder in California. Now, only approximately 110–120 colonies remain in the state. Approximately 75 percent of the current breeding population in California occurs along the banks of the Sacramento and Feather Rivers in the northern Central Valley.[47]

Historically, a population of nesting bank swallows, was documented in the Site 1-1 survey area. The most recent record from CNDDB for this location was from 1986, but CNDDB noted that the site has since been riprapped and habitat no longer exists. The closest recent (2017) CNDDB record is from the vicinity of Knights Landing, which is approximately 15 miles from the survey area. Although nesting habitat in the survey area is limited, as the banks are mostly covered in dense vegetation, there is high-quality foraging habitat that bank swallows may use.[48]

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42 California Department of Fish and Wildlife. 2021. California Natural Diversity Database (CNDDB) search for the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. RareFind 5.0. Version 5.2.14. Biogeographic Data Branch. Information accessed January 12, 2021.

43 K. C. Sorgen, Senior Natural Resources Specialist, Sacramento Area Flood Control Agency. Comments on an administrative draft of Wildlife Habitat Survey Report for American River Common Features 2016 Project American River Contract 1, September 10, 2019.

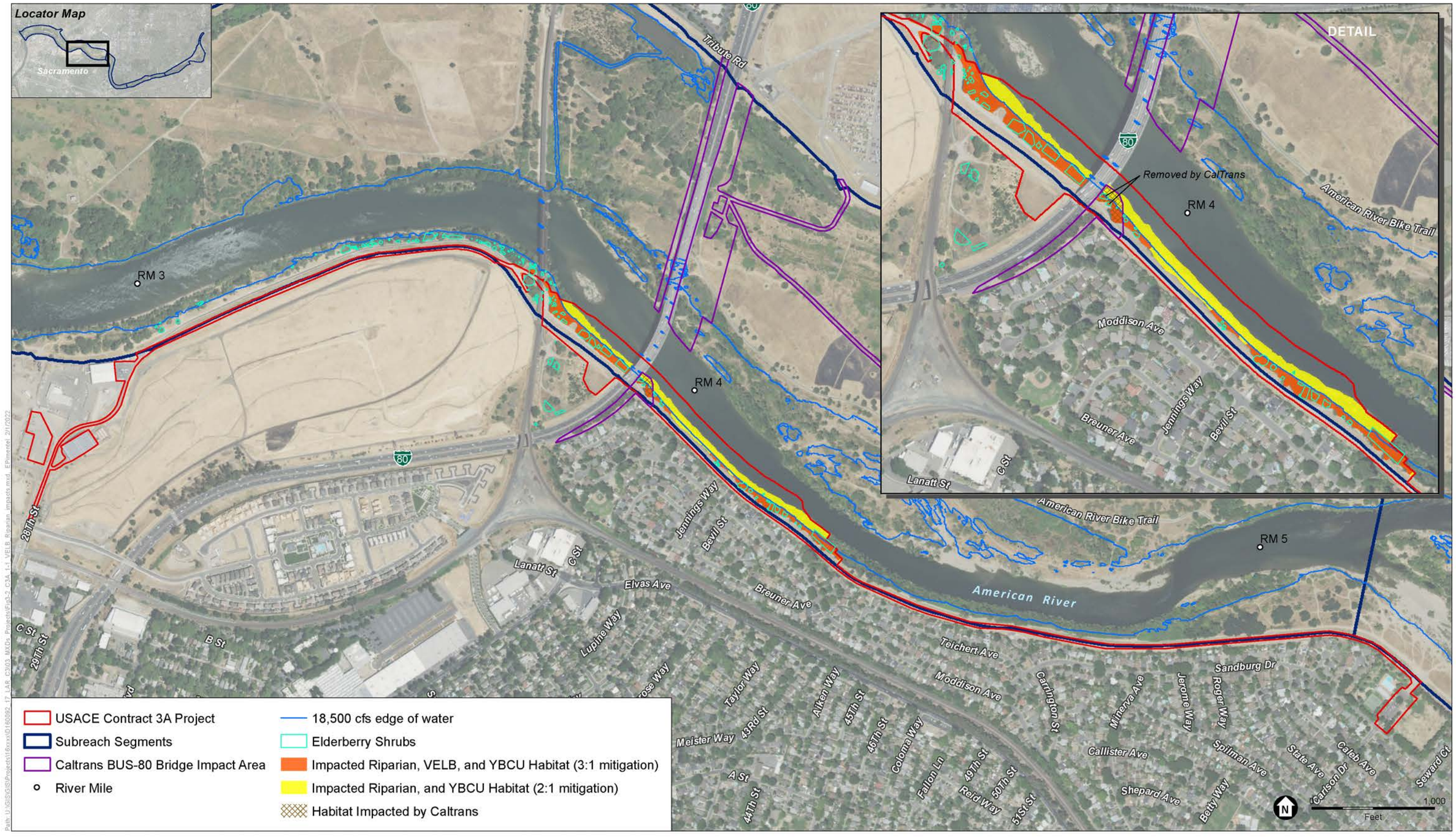
44 Lori Price, Environmental Scientist, Flood Projects Office, California Department of Water Resources. Comments on an administrative draft of Wildlife Habitat Survey Report for American River Common Features 2016 Project American River Contract 1, August 30, 2019.

45 California Department of Fish and Game. 1999. California Wildlife Habitat Relationships System California Interagency Wildlife Task Group: Bank Swallow.

46 California Department of Fish and Game. 1999. California Wildlife Habitat Relationships System California Interagency Wildlife Task Group: Bank Swallow.

47 California Department of Fish and Game. 1999. California Wildlife Habitat Relationships System California Interagency Wildlife Task Group: Bank Swallow.

48 California Department of Fish and Wildlife. 2021. California Natural Diversity Database (CNDDB) search for the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. RareFind 5.0. Version 5.2.14. Biogeographic Data Branch. Information accessed January 12, 2021.



SOURCE: Sacramento County, 2021; Caltrans, 2021; USACE, 2022; ESA, 2022

ARCF 2016 American Rivert Contract 3A

Figure 3-2
Impacts to VELB, YBCU, and Riparian Habitat within the LAR Contract 3A Site 1-1

ESA

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Sacramento River Winter-Run Chinook Salmon

Sacramento River winter-run Chinook salmon is Federal and State-listed as endangered. Section 3.8.1 (pages 154–157) of the ARCF GRR FEIS/FEIR describes the ecology and occurrence of this species in the ARCF GRR Project Area.

Central Valley Spring-Run Chinook Salmon

Central Valley spring-run Chinook salmon is Federal and State-listed as threatened. Section 3.8.1 (pages 156–158) of the ARCF GRR FEIS/FEIR describes the ecology and occurrence of this species in the ARCF GRR Project Area.

California Central Valley Steelhead

California Central Valley steelhead is Federal-listed as threatened. Section 3.8.1 (pages 156, 157, and 159–160) of the ARCF GRR FEIS/FEIR describes the ecology and occurrence of this species in the ARCF GRR Project Area.

North American Green Sturgeon

North American green sturgeon is Federal-listed as threatened. Section 3.8.1 (pages 156, 157, and 161–162) of the ARCF GRR FEIS/FEIR describes the ecology and occurrence of this species in the ARCF GRR Project Area.

Non-listed Special-Status Wildlife Species

Crotch Bumble Bee

The crotch bumble bee was petitioned to be added to the State endangered species list and was listed as a candidate species by CDFW in June 2019. However, the Sacramento Superior Court overturned the ruling in November 2020, stating that the California Endangered Species Act does not protect terrestrial invertebrates. This ruling is currently under appeal. Thus, the crotch bumble bee was included in this report, because it may meet the criteria for listing if higher courts determine that invertebrates may qualify for such listing and was considered a special status species in conformance with Section 15380(d) of the CEQA Guidelines.

It inhabits open grassland and scrub habitats throughout California. Crotch bumble bees primarily nest underground in mammal burrows, but are occasionally observed in old logs and cavities in trees, among other aboveground locations. They are generalist foragers, with short tongues, and thus prefer foraging on open flowers with short corollas. They overwinter in soft disturbed soil or under leaf litter.[49]

This species was historically common throughout the Central Valley, but now is mostly absent. The closest occurrence documented in the CNDDB, last recorded in 2020, was just east of Mather Air Force Base approximately 12 miles east of the Project area. Documented occurrences are limited in the Central Valley, but that may partially be due

[49] California Department of Fish and Wildlife. 2019. Evaluation of the Petition from the Xerxes Society, Defenders of Wildlife, and the Center for Food Safety to List Four Species of Bumble Bees as Endangered under the California Endangered Species Act. Sacramento, CA. April 4, 2019. Available: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=166804&inline. Accessed December 12, 2019.

to under reporting. Two other sighting were documented within 20 miles of the Project Area in 2020: one just west of Davis and one in the Consumnes River Preserve. Suitable foraging habitat occurs in the survey area in annual grassland and scrub habitats. The potential for nesting and overwintering within the levees is unknown, due to potential frequent flooding and the limited data available documenting the bee's habits, but sufficient rodent burrows do occur.

Western Pond Turtle

Western pond turtle is a California species of special concern. This moderate-sized aquatic turtle is commonly found in ponds, lakes, marshes, rivers, streams, and irrigation ditches with rocky or muddy substrates. It basks in sandy areas that may or may not be bordered by aquatic vegetation. Aquatic sites are often within woodlands, grasslands, and open forests between sea level and 6,000 feet. Western pond turtle nests are created in upland areas with friable soils, often up to 0.25 miles from an aquatic site.[50,51]

Western pond turtles are discontinuously distributed throughout California west of the Cascade-Sierran crest.[52] There are documented CNDDB occurrences for this species. This species was observed in 2021 upstream of the Project Area near the Campus Commons Golf Course, on the right bank of the river, basking on a log in the water.[53] Pond turtles are expected to use upland and aquatic habitat in the Project Area throughout the year.

Burrowing Owl

Burrowing owl is a California species of special concern. Section 3.8.1 (pages 152–153) of the ARCF GRR FEIS/FEIR describes the ecology of this species in the Project Area. Recent occurrence information is presented below.

The closest CNDDB occurrence of burrowing owl was in 1974 and is just east of Site 2-1, in Subreach 2, on the university campus and approximately two miles east of the survey area, but has since been developed. More recent occurrences have been documented on levees along the Natomas Drainage Canal (2007) and along an irrigation canal near Elk Horn Boulevard (2012) within 5 miles of the Project Area. The non-riparian areas of the levee and bike path along the Project corridor in the staging and access areas of the Project Area consist of disturbed grasslands with small-mammal burrows and ground squirrel activity. This area provides nesting habitat for burrowing owl. During reconnaissance-level surveys, no burrowing owls nor signs of occupied burrows were found.

50 Jennings, M. R., and M. P. Hayes. 1994. *Amphibian and Reptile Species of Special Concern in California*. Final report submitted to the California Department of Fish and Game, Inland Fisheries Division, Rancho Cordova, CA.

51 Zeiner, D. C., W. F. Laudenslayer Jr., and K. E. Mayer (comp. eds.). 1988. *California's Wildlife. Volume I: Amphibians and Reptiles.* California Statewide Wildlife Habitat Relationships System. Sacramento: California Department of Fish and Game.

52 Jennings, M. R., and M. P. Hayes. 1994. *Amphibian and Reptile Species of Special Concern in California*. Final report submitted to the California Department of Fish and Game, Inland Fisheries Division, Rancho Cordova, CA.

53 Environmental Science Associates. 2021. Wildlife Habitat Survey Report: American River Common Features Project American River Contracts 3A and 4A. Prepared for Sacramento Area Flood Control Agency. December 2021.

Purple Martin

Purple martin is a California species of special concern. Section 3.8.1 (page 153) of the ARCF GRR FEIS/FEIR describes the ecology and occurrence of the purple martin, a California species of special concern, and its potential to nest within the Project Area.

White-Tailed Kite

White-tailed kite is a State fully protected species. Section 3.8.1 (page 153) of the ARCF GRR FEIS/FEIR describes the ecology and occurrence of this species in the Project Area.

Birds Protected by the Migratory Bird Treaty Act and California Fish and Game Code Subsections 3503 and 3503.5

The Federal Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (CFGC) protect raptors, most native migratory birds, and breeding birds that could be present in the Project Area. The Parkway corridor provides high-quality foraging and nesting opportunities for a variety of resident and migratory birds. Common species that may nest in the Parkway's mature trees include western scrub jay, acorn woodpecker, downy woodpecker, northern flicker, black phoebe, American robin, western bluebird, ash-throated flycatcher red-tailed hawk, red-shouldered hawk, and great horned owl. Remnant swallow nests were observed under the Highway 160 Bridge. A full list of species observed in the Project Area is provided in Appendix B. Additional information for Cooper's hawk, great egret, and great blue heron is provided below.

Cooper's Hawk

Cooper's hawk is a CDFW watch list species. Cooper's hawk is a resident of wooded areas throughout California, with breeding described throughout the Coast Ranges and Sierra Nevada foothills. The species' peak nesting season is May through July, although nesting may occur any time from March to August.[54]

A Cooper's hawk nest was recorded by the CNDDB within 0.5 mile south of the Project Area in 2007 and 2008.[55] Woodland habitat in and near the Project Area provides potential nesting opportunities for this species.

Great Egret

Great egret is a species protected under the MBTA. This species is a common yearlong resident throughout California, except for high mountains and deserts. They nest in colonies in large trees usually near water. Nests are often sheltered from prevailing winds and may be as high as 100 feet off the ground. Great egrets feed and rest in wetlands, and along the margins of estuaries, lakes, riverine features, mudflats, salt ponds, and irrigated agricultural lands. There is a documented egret rookery approximately 0.5 miles

54 Zeiner, D. C., W. F. Laudenslayer, Jr., K. E. Mayer, and M. White (eds.). 1990. *California's Wildlife. Volume II: Birds.* Sacramento: California Department of Fish and Game.

55 California Department of Fish and Wildlife. 2021. California Natural Diversity Database (CNDDB) search for the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. RareFind 5.0. Version 5.2.14. Biogeographic Data Branch. Information accessed November 11, 2021.

downstream and another approximately 6 miles upstream of the survey areas on the American River.

Great Blue Heron

Great blue heron is a species protected under the MBTA. This species is commonly found all year throughout most of California in shallow estuaries and emergent wetlands. They are less commonly found along riverine and rocky marine shorelines, croplands, pastures, and mountains. They usually nest in colonies on the tops of secluded large snags or live trees, usually among the tallest available. There is a documented heron rookery approximately 0.5 miles downstream and another approximately 6 miles upstream. upstream of the survey areas on the American River.

Pallid Bat

Pallid bat, a California species of special concern, occurs throughout California except in parts of the high Sierra and the northwestern corner of the state.[56] The pallid bat inhabits a variety of habitats, such as grasslands, shrublands, woodlands, and forests; however, it is most abundant in open, dry habitats with rocky areas for roosting. Pallid bats roost alone, in small groups, or gregariously.[57] Roosts include caves, crevices in rocky outcrops and cliffs, mines, trees, and various manmade structures (e.g., bridges, barns, porches); they generally have unobstructed entrances/exits that are high above the ground, warm, and inaccessible to terrestrial predators. Year-to-year and night-to-night roost reuse is common; however, bats may switch day roosts on a daily and seasonal basis.[58]

The pallid bat is the most widely described special-status bat species in central California. No occurrences are reported within 5 miles of the Project Area, or in the nine-quadrangle area that includes the Project Area. No bats were observed during reconnaissance-level surveys; however, they could utilize the railroad or Interstate 80 bridge for a day roost.

Western Red Bat

The western red bat is a California species of special concern. This is a riparian obligate species (i.e., a species dependent on riparian habitat) that is ubiquitous throughout California except in the northern Great Basin region. Western red bats roost individually in dense clumps of tree foliage in riparian areas, orchards, and suburban areas. Individuals have been observed foraging around street lamps and floodlights in suburban areas.[59]

Based on its tendency to roost within tree foliage, this species may be intermittently present in the riparian and woodland habitat in the Project Area. However, roosting

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56 Zeiner, D. C., W. F. Laudenslayer, Jr., K. E. Mayer, and M. White (eds.). 1990. *California's Wildlife. Volume III: Mammals.* Sacramento: California Department of Fish and Game.

57 Western Bat Working Group. 2005. Western Bat Working Group Species Accounts for all Bats. Available: http://www.wbwg.org/speciesinfo/species_accounts/allbats.pdf.

58 Western Bat Working Group. 2005. Western Bat Working Group Species Accounts for all Bats. Available: http://www.wbwg.org/speciesinfo/species_accounts/allbats.pdf.

59 Western Bat Working Group. 2005. Western Bat Working Group Species Accounts for all Bats. Available: http://www.wbwg.org/speciesinfo/species_accounts/allbats.pdf.

occurrences are not reported by the CNDDB within 5 miles of the Project Area or in the nine-quadrangle area that includes the Project Area.

American Badger

The American badger is a California species of special concern. This species prefers open grasslands and riparian habitat in the valley areas, although it is present throughout multiple habitat types in California. This species inhabits areas with friable soils to excavate dens and pursue prey, and relatively open, uncultivated ground. In California, badgers range throughout the state, except for the humid coastal forests of northwestern California in Del Norte County and northwestern Humboldt County.[60]

Reconnaissance-level wildlife surveys of the Project Area in fall 2021 did not detect any badger excavations or other signs of presence. This species was previously observed in the vicinity of the Project Area, but the observation is almost 30 years old. Nonetheless, suitable habitat is present in the Project Area in annual grasslands.

Central Valley Fall-/Late Fall–Run Chinook Salmon

Section 3.8.1 (pages 156, 157, and 158–159) of the ARCF GRR FEIS/FEIR describes the ecology and occurrence of this species in the Project Area.

Hardhead

Hardhead is a California fish species of special concern found at low to mid-elevations in relatively undisturbed habitats of larger streams with clear, cool water. This species prefers pools and runs with deep, clear water, slow velocities, and sand-gravel-boulder substrates. The range for hardhead extends from the Pit River in the north to the Kern River in the south. The species is common in the Lower American River.[61]

Western River Lamprey

Western river lamprey is a California species of special concern. This species prefers clean, gravelly riffles in permanent streams for adult spawning while larvae need sandy to silty backwaters or stream edges. Their range extends from just north of Juneau, Alaska, south to tributaries of the San Joaquin River. They have been observed in the Lower American River.[62]

Listed Special-Status Plant Species

No listed special-status plants have the potential to occur within the Project Area.

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60 Williams, D. F. 1986. *Mammalian Species of Special Concern in California*. Wildlife Management Division Administrative Report 86-1. Sacramento: California Department of Fish and Game. June 1986.

61 Moyle, P.B., R. M. Quiñones, J. V. Katz and J. Weaver. 2015. *Fish Species of Special Concern in California.* Third Edition. Sacramento: California Department of Fish and Wildlife. Available: https://www.wildlife.ca.gov/Conservation/SSC/Fishes. Accessed January 10, 2021.

62 Moyle, P.B., R. M. Quiñones, J. V. Katz and J. Weaver. 2015. *Fish Species of Special Concern in California.* Third Edition. Sacramento: California Department of Fish and Wildlife. Available: https://www.wildlife.ca.gov/Conservation/SSC/Fishes. Accessed January 10, 2021.

Non-Listed Special-Status Plant Species

Sanford's Arrowhead

Section 3.8.1 (page 162) of the ARCF GRR FEIS/FEIR describes the ecology and of this species in the Project Area. Updated occurrence information is presented below.

Sanford's arrowhead was not observed within Site 1-1 during general biological surveys, conducted by Environmental Science Associates in fall 2021 and is not likely to occur due to lack of suitable habitat. However, there are known occurrences upstream, thus focused botanical surveys will be conducted prior to the start of construction to confirm its absence.

Bristly Sedge

Bristly sedge is a California Rare Plant Rank (CRPR) 2B plant.[63] This species is found in coastal prairie, margins of marshes and swamps, and valley and foothill grassland from 0 to 625 meters. It is identifiable from May to September. This species was not observed within Site 1-1 during general surveys conducted in 2021. Additional botanical surveys will be conducted prior to the start of construction to confirm its absence.

Woolly Rose-Mallow

Woolly rose-mallow is a CRPR 1B plant. This species is often found in riprap on sides of levees in freshwater marshes and swamps and is identifiable from June to September. This species was not observed within Site 1-1 during general surveys conducted in 2021. Additional botanical surveys are scheduled for spring/summer 2022, to confirm its absence.

Critical Habitat for Listed Species

USFWS defines the term "critical habitat" in the Federal Endangered Species Act as a specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection. Critical habitat has been designated for the following regionally occurring species: western yellow-billed cuckoo, California red-legged frog, California tiger salamander, conservancy fairy shrimp, vernal pool fairy shrimp, vernal pool tadpole shrimp, Sacramento Orcutt grass, slender Orcutt grass, and VELB. The Project Area does not occur within designated critical habitat for any of these species.

The Project Area is within designated critical habitat for Central Valley spring-run Chinook salmon and California Central Valley steelhead.

The National Marine Fisheries Service (NMFS) defines the term "essential fish habitat" in the Magnuson-Stevens Fishery Conservation and Management Act as waters and substrate of the United States necessary for fish spawning, breeding, or growth to maturity. The Project Area is within essential fish habitat for Chinook salmon.

63 The CNPS Rare Plant Ranking system ranges from presumed extinct species, California Rare Plant Rank (CRPR) 1A, to limited distribution species now on a watch list CRPR 4.

3.6.2 Methodology and Basis of Significance

3.6.2.1 Methodology

This analysis generally uses the same methodology described in Section 3.8.2 (pages 162–163) of the ARCF GRR FEIS/FEIR. Impacts on special-status species in the Project Area were evaluated based on data collected from biological resources surveys conducted in 2019, 2020, and 2021 at Site 1-1 and from other resources such as the following:

- Aerial imagery.
- A list of special-status wildlife species with potential to occur in or in the vicinity of the Project Area that was compiled from a nine-quadrangle search of the CNDDB.[64]
- A USFWS species list for the Project Area generated using the online Information for Planning and Consultation (IPaC) database.[65]
- A list of special-status plant species with potential to occur in or in the vicinity of the Project Area that was compiled from a nine-quadrangle search of the California Native Plant Society (CNPS) Electronic Inventory of Rare and Endangered Plants of California.[66]
- Literature regarding the biological resources of the region.
- Coordination with USFWS and NMFS.
- The Standard Assessment Methodology (SAM) model for fish species.

For this analysis, the Project alternatives were determined to have a significant impact on special-status species if Project activities would have a substantial adverse effect, either directly or through habitat modification, on any species identified as candidate, sensitive, or special-status in local or regional plans or policies, or regulations, or by CDFW, USFWS, or NMFS. Species that are not currently listed under the State or Federal Endangered Species Acts as rare, threatened, or endangered, but that can be shown to meet the criteria for such listing, were also considered special-status species (CEQA Guidelines Section 15380[d]). The impact analysis also considered the goals and objectives of the American River Parkway Plan and how Project construction would affect those goals and objectives. Impacts on special-status species were evaluated based on anticipated construction activities and changes to habitat types after construction of the Project.

64 California Department of Fish and Wildlife. 2021. California Natural Diversity Database (CNDDB) search for the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. RareFind 5.0. Version 5.2.14. Biogeographic Data Branch. Information accessed November 11, 2021.

65 U.S. Fish and Wildlife Service. 2021. List of Threatened and Endangered Species that may occur in you Proposed Project Location or may be Affected by your Proposed Project. Consultation Code: 08ESMF00-2021-SLI-0720; Event Code: 08ESMF00-2021-E-02098. Species list generated November 15, 2021.

66 California Native Plant Society. 2021. Special-status Plants documented on the U.S. Geological Survey 7.5-minute Sacramento East topographic quadrangle and surrounding eight quadrangles. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Rare Plant Program. Available: www.rareplants.cnps.org. Accessed December 12, 2021.

The SAM analysis used measurements of SRA habitat features in both existing (without-project) and designed (with-project) conditions. Shoreline surveys conducted in 2019 and 2020 provided the without-project data and the 65-percent design plans provided the with-project data. The SAM analysis for individual fish species followed the approach used in the 2015 NMFS Biological Opinion (BO) for the ARCF 2016 Project and revised in the 2021 NMFS BO.

As described in the original NMFS BO[67] and 2021 NMFS BO,[68] SAM results are weighted relative response index (WRI) values that represent the difference between modeled fish responses to existing (without-project) conditions and designed (with-project) conditions. Negative WRI values indicate that existing conditions are better for fish and positive WRI values indicate that designed (proposed future) conditions are better for fish. While the quantified WRI values are provided in Appendix C, these numbers are used on a qualitative basis to determine the extent of impacts, and not a quantitative basis to assign value or absolute extent of impacts. Instead, impacts and mitigation have been assessed by determining the slope-area of the project footprint. The slope-area involves measuring surface area of the levee slope below the OHWM (18,500 cfs) and the natural benthic substrate out to the limit of rock placement. See Appendix C for details on updated SAM analysis methods and results.

3.6.2.2 Basis of Significance

This analysis uses the same basis of significance described in Section 3.8.2 (page 163) of the ARCF GRR FEIS/FEIR, as restated below.

The Proposed Action would result in a significant effect related to special-status species if it would result in:

- Substantial direct or indirect reduction in growth, survival, or reproductive success of species listed or proposed for listing as threatened or endangered under the Federal or California Endangered Species Act;
- Substantial direct mortality, long-term habitat loss, or lowered reproductive success of Federally or State-listed threatened or endangered animal or plant species or candidates for Federal listing;
- Direct or indirect reduction in the growth, survival, or reproductive success of substantial populations of Federal species of concern, State-listed endangered or threatened species, plant species listed by the California Native Plant Society, or species of special concern or regionally important commercial or game species; or
- An adverse effect on a species' designated critical habitat.

67 National Marine Fisheries Service. 2015. Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the American River Common Features General Reevaluation Report. pp. 25–26.

68 National Marine Fisheries Service. 2021. Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the American River Common Features General Reevaluation Report Reinitiation. pp. 40-41.

Effects Not Evaluated Further

Section 3.6.2, *Environmental Setting*, above discusses all special-status wildlife, fish, and plant species evaluated in this analysis and summarizes the potential for each of these species to be present in the Project Area. The wildlife, fish, and plant species listed in Tables 3-5 and 3-6 that are not expected to occur, or have low potential to occur (because the Project Area does not provide suitable habitat for the species, or because the Project Area is generally outside the species' range) are not analyzed further in this Supplemental EIR.

3.6.3 Impact Analysis

3.6.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the present level of risk of flooding due to levee failure because of seepage, slope stability, overtopping, or other erosion concerns. This analysis finds the same effects as are described in Section 3.8.3 (page 163) of the ARCF GRR FEIS/FEIR, which are summarized below.

Under the No Action Alternative, no construction-related impacts would occur. If a levee failure were to occur, however, special-status species would experience substantial adverse effects as a result of flooding. The potential for loss of lives and property would require emergency action. The required emergency procedures could have significant effects on special-status species, such as sedimentation and turbidity from emergency repair efforts, a need to suspend best management practices (BMPs), permanent loss of SRA habitat as a result of rock placement, long-term loss of habitat for non-aquatic species, lack of reproductive success, and mortality. All these effects on special-status species would be significant; however, the timing, duration, and magnitude of a flood event is unpredictable, making a precise significance determination impossible.

3.6.3.2 Proposed Action

The following impact analysis is drawn from Section 3.8.4 (pages 164–180) of the ARCF GRR FEIS/FEIR, as revised to reflect Site 1-1 and the impacts of the Proposed Action.

Valley Elderberry Longhorn Beetle

Construction would directly affect 3.24 acres of VELB habitat at Site 1-1. These areas include the shrub and the riparian habitat within 25 meters (82 feet), which is considered VELB habitat. The impact of this loss of Federally listed species habitat would be significant. The impact would be reduced to a less-than-significant level with implementation of Mitigation Measure VELB-1, which would include creating 9.72 acres of off-site VELB habitat. The affected shrubs would be transplanted to the approved elderberry shrub mitigation sites: Rio Americano West, Rio Americano East and the Rossmoor East Mitigation Sites or other elderberry shrub mitigation sites in the LAR as described in Chapter 2, of the *Project Description* of the *American River Watershed*

Common Features, Water Resources Development Act of 2016, American River Contract 1 Supplemental Environmental Assessment/Supplemental Environmental Impact Report and Chapter 2 of the *Project Description* of the *American River Watershed Common Features, Water Resources Development Act of 2016, American River Contract 2 Supplemental Environmental Impact Statement/Supplemental Environmental Impact Report*.

Operation and maintenance (O&M) by the American River Flood Control District of the mitigation sites planned as part of the Proposed Action could require the trimming of elderberry shrubs as described in Section 3.8.4 (page 165) of the ARCF GRR FEIS/FEIR. As part of long-term O&M, up to 0.5 acre of elderberry shrubs would be trimmed by the American River Flood Control District, and up to 25 acres over the life of the ARCF GRR project (ARCF GRR FEIS/FEIR, Table 20). Trimming consists of cutting overhanging branches along the levee slopes on both the landside and waterside. Some shrubs may be located adjacent to the levee with branches hanging over the levee maintenance road. Up to a third of a shrub would be trimmed in a single season. Trimming would occur between November 1 and March 15. This loss of VELB habitat would be significant.

To offset this impact, Project Partners would implement Mitigation Measure VELB-1. Specifically, the mitigation for O&M impacts would be offset by development of off-site mitigation sites that would be designed in accordance with the 2017 Framework. In addition, each year the American River Flood Control District would document the amount of VELB habitat that they have trimmed and report that number to USACE to ensure compliance with the USFWS Biological Opinion. If the local maintaining agency has a need to exceed the amount of VELB habitat which needs to be trimmed or affected due to routine maintenance, then they would request that USACE reinitiate consultation on this biological opinion for those actions. With the implementation of the mitigation discussed above, O&M activities would result in less-than-significant impacts on VELB.

Western Yellow-Billed Cuckoo

As described in the Proposed Action effects discussion in Section 3.8.4 (page 167) of the ARCF GRR FEIS/FEIR, the Project Area is unlikely to support nesting western yellow-billed cuckoos because the riparian corridor is narrow, patchy, and frequented by park visitors. Construction of Site 1-1would result in the loss of 7.10 acres of riparian habitat (Table 3-4). This loss of habitat would be a significant impact. With implementation of Mitigation Measures VELB-1, VEG-1, VEG-2, and BIRD-1, the impact would be reduced to a less-than-significant level.

Swainson's Hawk

As described in Section 3.8.4 (page 168) of the ARCF GRR FEIS/FEIR, the Project Area possesses suitable roosting and nesting habitat for Swainson's hawk. Project construction could affect the riparian habitat used by this species for roosting and nesting. Although the removal of riparian trees would be mitigated through compensatory plantings, there would be a temporal loss of habitat until the newly planted trees could become

established and mature. Long-term effects on Swainson's hawk nesting habitat could result from the loss of riparian habitat in the Project Area as follows: 3.92 acres at Site 1-1 for erosion protection efforts, and 3.18 acres at Site 1-1 of riparian woodland habitat within the access areas, haul routes, and staging areas. This would be a significant impact on Swainson's hawk nesting habitat.

Before the start of construction, pre-construction surveys would be conducted following the Swainson's Hawk Technical Advisory Committee Guidance.[69] Should surveys indicate that nesting Swainson's hawk are present, the potential would exist for short-term, temporary impacts during construction from dust, noise, and vibration.

The compensatory mitigation proposed to address impacts to western yellow-billed cuckoo would also compensate for the loss of Swainson's hawk nesting habitat within riparian habitat. Both species use riparian trees for nesting, and mitigation plantings to address Project-related impacts on western yellow-billed cuckoo would additionally benefit Swainson's hawk. Potential nesting habitat would be temporarily reduced because there would be a lag time between when trees would be removed or trimmed during Project construction and when the replacement trees would be mature enough to support raptor nesting. There would be a net increase in the extent and quality of riparian habitat that would be present once the mitigation plantings become established. With implementation of the mitigation measures identified for impacts on riparian habitat (VEG-1 and VEG-2) and nesting birds (BIRD-1), the impact on Swainson's hawk from construction-related activities would be reduced to a less-than-significant level.

O&M activities after construction would be consistent with existing O&M practices, so any impacts associated with O&M would also be similar to existing conditions. O&M would involve activities such as mowing, herbicide application, and rodent control. Rodent control would be limited to preventing rodents from burrowing and undermining the levee; therefore, rodent control actions are not expected to appreciably reduce the prey base for Swainson's hawk. Mowing in the Project Area may also increase the visibility of prey, thereby enhancing foraging efficiency for Swainson's hawk. Application of herbicides would be limited and is not expected to appreciably affect habitat conditions for Swainson's hawk (i.e., no loss of nesting trees or loss of grassland foraging habitat). O&M would involve limited vegetation trimming and management to facilitate visual inspections of the levee. This vegetation trimming is expected to focus largely on shrubs and small, short trees whose presence may be concealing levee erosion issues. Therefore, vegetation management during O&M activities is not anticipated to affect large trees that represent suitable nesting habitat for Swainson's hawk. Because these activities would be short term, and the resulting impacts would be temporary, impacts of O&M would be less than significant.

[69] Swainson's Hawk Technical Advisory Committee. 2000. *Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley*. May 31, 2000.

Bank Swallow

Bank swallows historically nested along the Lower American River, as recently as 1986, and continue to forage in the area, but are not known to nest in the Project Area due to the dense vegetation and riprap cover on the banks in Site 1-1. If present in the vicinity of the Project Area, nesting bank swallow colonies could be directly affected if the proposed erosion protection measures were implemented during the species' nesting season (April 1 through August 31). Thus, measures to reduce erosion risk could indirectly affect bank swallows by removing suitable or potentially suitable foraging habitat and making the banks unsuitable for future use by bank swallows. This impact on bank swallow would be significant. With implementation of Mitigation Measure BIRD-1, including pre-construction surveys, training of construction crews, and avoidance buffers if nesting birds are located, the impact on bank swallow from construction activities would be reduced to a less-than-significant level.

O&M activities after construction would be consistent with existing O&M practices, so any impacts also would likely be consistent with existing conditions. In addition, these activities would be short term, and the resulting impacts would be temporary and less than significant.

Crotch Bumble Bee

Bumble bees have three basic habitat requirements: suitable nesting sites for the colonies, availability of nectar and pollen from flowers, and suitable overwintering sites for queens. The Crotch bumble bee nests primarily underground in abandoned rodent burrows. They are generalist foragers. Very little is known about the overwintering sites of Crotch bumble bees, but overwintering habitat for bumble bees in general is often in soft, disturbed soil or under leaf litter or similar debris. Direct impacts of project construction could include mortality of individuals or nests as a result of activities such as vegetation removal and materials staging, or from construction equipment traffic. Vegetation removal could also result in a reduction of foraging habitat. With implementation of Mitigation Measure BEE-1 identified below for Crotch bumble bee, and Mitigation Measures VEG-1 and VEG-2 the impact of construction on this species would be reduced to a less-than-significant level.

O&M activities after construction would likely be consistent with existing O&M practices (except as described in Mitigation Measure BEE-1's statement regarding rodent abatement), so any impacts also would likely be consistent with existing conditions. In addition, these activities would be intermittent, and the resulting impacts would be temporary and less than significant with mitigation.

Burrowing Owl

During their nesting period (February 1 through August 15), burrowing owls could use small-mammal burrows in grassland areas that are present in and adjacent to the levees along the American River. If present, ground disturbance (excavation and backfilling) could result in direct mortality or injury of burrowing owls within burrows and similar

nesting features. Such features could be disturbed or destroyed during construction in staging areas. This would be a significant impact. However, because there is only habitat for burrowing owls in staging areas and transplant areas there is flexibility to avoid active burrows. Thus, implementation of pre-construction surveys to identify active burrows and placement of avoidance buffers to avoid active burrows, as described in Mitigation Measure BIRD-1, would reduce potential impacts from construction on burrowing owl to a less-than-significant level.

O&M activities after construction would be consistent with existing O&M practices, so any impacts also would likely be consistent with existing conditions. Ongoing rodent control could limit the available of small-mammal burrows often used by burrowing owl. However, because rodent control would be limited to areas where such burrows could threaten the integrity of the levee system, such actions are not expected to substantially reduce the availability of suitable burrows for burrowing owl along the American River. Mowing tall vegetation also improves foraging habitat conditions and accessibility to burrows. Therefore, because O&M activities would be short term and the resulting impacts would be temporary, impacts of O&M would be less than significant.

White-Tailed Kite

The Project Area contains numerous large riparian trees that provide suitable nesting conditions for white-tailed kite. Noise from heavy construction machinery could prompt nest abandonment and subsequent failure of nests in and near construction activity areas. Vegetation removal could also result in direct take of active white-tailed kite nests. This would be a significant impact. Implementation of Mitigation Measures VEG-1 and VEG-2 would reduce the impact on riparian nesting habitat to a less-than-significant level. Implementation of Mitigation Measure BIRD-1 would reduce the impact on nesting white-tailed kites to a less-than-significant level.

O&M activities after construction would be consistent with existing O&M practices, so any impacts also would likely be consistent with existing conditions. Vegetation management during O&M activities is not anticipated to affect large trees, limiting the potential for such activities to affect nesting habitat for white-tailed kite. Therefore, because O&M activities would be short term and the resulting impacts would be temporary, impacts of O&M would be less than significant.

Purple Martin

Purple martins inhabit riparian forest and woodland areas and nest in tree cavities or crevices of cliffs. This species is also known to use infrastructure such as bridge and overpasses (e.g., weep holes) or other manmade structures (e.g., lamp posts, traffic lights, birdhouses) for nesting. By removing riparian woodland, the Project could continue to fragment suitable habitat for this species. Noise from heavy construction machinery could prompt nest abandonment and subsequent failure of nests in and near construction activity areas. Vegetation removal could also result in direct take of purple martins if any are nesting in the trees targeted for removal. This impact would be significant. With implementation of Mitigation Measure BIRD-1 and restoration of riparian habitat in the

Parkway, the impact of construction on purple martin would be reduced to a less-than-significant level.

O&M activities after construction would be consistent with existing O&M practices, so any impacts also would likely be consistent with existing conditions. The application of herbicides could also indirectly affect purple martins by wilting or killing vegetation that contributes to the production of their prey (i.e., insects). Vegetation management during O&M activities would not likely affect nesting habitat for purple martin because it would not target the large trees (more specifically, large trees with cavities) used by this species. Mowing noise may temporarily disturb purple martins, but the activity would be only sporadic and short term.

Other Breeding and Migratory Birds

Many non-listed bird species that are otherwise protected by the MBTA and the CFGC are expected to be present in the Project Area. These include Cooper's hawk, great blue heron, great egret, and other common passerine, raptor, and wading bird species. General disturbance, including exposure to noise, vibration, and dust, could adversely affect nesting birds by altering their nesting behaviors (e.g., prompting adults to abandon eggs or chicks in nests). Construction activities would occur during a period that overlaps with the nesting season for numerous bird species that are present in the Project Area. Construction work, including removal of riparian trees, during the nesting season could result in the destruction of nests and eggs and mortality of nestlings. This would be a significant impact. With implementation of Mitigation Measure BIRD-1, the impact of construction on non-listed birds protected by the Migratory Bird Treaty Act or the California Fish and Game Code would be reduced to a less-than-significant level.

O&M activities after construction are expected to be consistent with existing O&M practices, so any impacts also would likely be consistent with existing conditions. Vegetation management for O&M activities is not anticipated to affect large trees, limiting the potential for such activities to affect nesting birds. Therefore, because O&M activities would be short term and the resulting impacts would be temporary, impacts of O&M would be less than significant.

Western Pond Turtle

Western pond turtle inhabits rivers, pond, wetlands, and irrigation ditches for aquatic habitat and sandy or grassland areas for upland habitat. This species nests in upland areas within one-quarter mile of aquatic habitat. Construction equipment accessing areas occupied by western pond turtle could strike turtles that are nesting, basking, or traversing upland habitat, resulting in mortality of these animals. Western pond turtles may also be crushed or entombed when construction equipment causes burrows to collapse. In addition, fuel, oil, other petroleum products, and other chemicals used during maintenance activities could be accidentally introduced into waterways. In sufficient concentrations, these contaminants would be toxic to western pond turtles and their prey species. This would be a significant impact. With implementation of Mitigation Measures

TURTLE-1 and WQ-1, the impact of construction on western pond turtle would be reduced to a less-than-significant level.

O&M activities, including vegetation management along the levees, could involve mowing and trimming of small trees and shrubs using hand tools or machinery. Such activities could incidentally collapse burrows or crush nests on the ground, potentially affecting western pond turtle individuals or their habitat. Pond turtles could be killed or injured by mower blades when they are above ground (e.g., during periods of cooler temperatures, such as early mornings) and unable to leave areas being maintained because of their relative lack of mobility. Mowing equipment could crush or expose a buried western pond turtle nest, potentially resulting in nest failure. This would be a significant impact. With implementation of Mitigation Measures TURTLE-1 and WQ-1, the impact of O&M on western pond turtle would be reduced to a less-than-significant level.

Pallid Bat

Construction activities could disturb riparian forest, which provides potential roosting habitat for pallid bat. Potential roosting habitat for pallid bat is also present underneath the railroad bridge and Interstate 80 Bridge. The period of construction activities would overlap the bat maternity season (generally May 1 to August 31). Tree removal in riparian habitat could adversely affect breeding and non-breeding pallid bats by causing the loss of established roosts and potential roosting habitat. Project construction work around vehicle bridge crossing the American River could also disturb pallid bat if they were occupying any of the bridges. General construction-related disturbance, including exposure to noise, vibration, and dust, could adversely affect breeding and non-breeding bats. This would be a significant impact. With implementation of Mitigation Measure BATS-1, the impact of construction on this species would be reduced to a less-than-significant level.

O&M activities, specifically trimming or removal of woody vegetation along the levees, could indirectly and directly affect colonies of roosting pallid bats by resulting in the loss or modification of habitat. However, such management of woody vegetation is largely expected to avoid the mature riparian trees where bats are most likely to be present, minimizing the potential for O&M activities to affect roosting pallid bats. The O&M activities associated with application of herbicides could indirectly affect pallid bats by wilting or killing vegetation that contributes to the production of their prey (i.e., insects). However, the application of herbicides would be highly localized and would focus on helping to eradicate unwanted weedy plants in the Project Area. Thus, the application of herbicides as part of O&M for the Proposed Action is not anticipated to appreciably affect the supply of prey for pallid bat. The impact of O&M on pallid bat would be less than significant.

Western Red Bat

Western red bats may establish day roosts in the foliage of large cottonwood, oak, and willow trees in the Project Area, and maternal roosts may occur in large well-developed stands of riparian habitat. Tree removal in riparian habitat could affect western red bats if

they are present. General construction-related disturbance, including exposure to noise, vibration, and dust, could adversely affect breeding and non-breeding bats. This would be a significant impact. With implementation of Mitigation Measure BATS-1 and restoration of riparian habitat in the Parkway the impact of construction on this species would be reduced to a less-than-significant level.

O&M activities, specifically trimming or removal of woody vegetation along the levees, could indirectly and directly affect colonies of roosting bats by resulting in the loss or modification of habitat. However, such management of woody vegetation is largely expected to avoid the mature riparian trees where bats are most likely to be present, minimizing the potential for O&M activities to affect roosting bats Other potential effects of O&M under the Proposed Action on western bat are the same as those described previously for pallid bat.

American Badger

American badger inhabits grasslands and riparian habitats. Potential impacts on American badger include mortality, injury, displacement, and harassment, along with permanent and temporary loss of habitat. During construction under the Proposed Action, badgers would be at risk of direct impacts such as vehicle strikes, along with impacts from loss of habitat, increased risks of predation loss, and disruption of behavioral patterns. Heavy machinery operating in the Project Area could compact the soil, making the ground less suitable for digging for badgers and their primary prey species. This would be a significant impact. Implementation of Mitigation Measure BADGER-1 would reduce this impact to a less-than-significant level.

O&M activities are expected to have only minor effects on habitat conditions for American badger. No widespread soil compaction is anticipated, and rodent control would result in only limited ground disturbance. Mowing work along the levees may displace badgers, but this effect would only be temporary because the activity would be temporary. Overall, the effect of O&M on American badger would be less than significant.

Sanford's Arrowhead

Sanford's arrowhead is an aquatic emergent herbaceous plant that grows in a variety of shallow freshwater habitats. This species is known to occur in various locations throughout the LAR, but Site 1-1 provides low quality habitat for this species and it was not observed during general surveys. Protocol level surveys are scheduled for spring/ summer 2022. If it is found to occur, Sanford's arrowhead plants could be crushed by construction equipment or trampled by construction personnel, resulting in damage to or mortality of the plants. Ground disturbance for the Proposed Action's bank improvement actions would increase the potential for Sanford's arrowhead plants to be unintentionally buried or removed. This would be a significant impact. Implementation of Mitigation Measure PLANT-1 would reduce this impact to a less-than-significant level, because as part of the final construction design, Project Partners would adjust construction access routes and the footprint of erosion protection activities to ensure the avoidance of known Sanford's arrowhead plants.

O&M activities after construction would involve activities such as mowing, herbicide application, and rodent control. Rodent control and mowing activities would increase the potential for Sanford's arrowhead to be unintentionally trampled, crushed, or ripped up by maintenance workers and equipment. O&M would involve limited vegetation trimming and management to facilitate visual inspections of the levee; this activity would have the same potential for Sanford's arrowhead to accidentally be damaged or killed as under current O&M activities. Overspray from herbicide applications may result in even accidental mortality of non-target plants, including Sanford arrowhead. However, the application of herbicides would be highly localized, and herbicides would not be sprayed near the known Sanford's arrowhead population within the Project Area. Thus, the application of herbicides as part of O&M for the Proposed Action is not anticipated to affect Sanford's arrowhead. The impact of O&M on Sanford's arrowhead would be less than significant.

Bristly Sedge and Woolly Rose-Mallow

Bristly sedge and woolly rose-mallow could occur along the water's edge within Site 1-1. Ground disturbance for the Proposed Action's bank improvement actions would increase the potential for these plants to be unintentionally buried or removed if present. Construction associated with Site 1-1 could result in removal of individuals if present in these areas. This would be a significant impact. Implementation of Mitigation Measure PLANT-1 would reduce this impact to a less-than-significant level, because as part of the final construction design, Project Partners would adjust construction access routes and the footprint of erosion protection activities to ensure the avoidance of these species, if determined to occur within these footprints.

Winter-Run Chinook Salmon

Construction impacts on winter-run Chinook salmon were based on the Proposed Action effects described in Section 3.8.4 (pages 170–173) of the ARCF GRR FEIS/FEIR and long-term impacts were based on SAM analysis as described above in Section 3.6.1.2 Existing Conditions. See **Appendix C** for details on updated SAM analysis methods and results.

Winter-run Chinook salmon do not spawn in the Project Area,[70] therefore, Project construction activities are not likely to affect winter-run Chinook salmon spawning or spawning habitat. Construction would avoid the primary migration period (December through July) and would be restricted to the channel edge, and the avoidance and minimization measures described below would be implemented. Therefore, no construction-related effects on winter-run Chinook salmon spawning or spawning habitat would occur.

Implementation of the erosion protection measures would result in adverse effects on juvenile and smolt winter-run Chinook salmon, their critical habitat, and essential fish

[70] Moyle, Peter B. Inland Fishes of California - Revised and Expanded. 1st ed. University of California Press, 2002. https://www.ucpress.edu/book/9780520227545/inland-fishes-of-california.

habitat. Construction activities that increase noise, turbidity, and suspended sediment may disrupt feeding or temporarily displace fish from their preferred habitat. Physical damage to or harassment of listed fish species would be low during the construction months. Adults would not sustain any physical damage because of construction as their size, preference for deep water,[71] and more crepuscular migratory behavior[72] would enable them to avoid most temporary, nearshore disturbance that occurs during typical daylight construction hours. Overall, the impact of construction activities on winter-run Chinook salmon would be significant. With implementation of Mitigation Measures WQ-1, FISH-1, FISH-2, and FISH-3 (below), this impact would be reduced to a less-than-significant level. Restricting in-water activities to a work window of July 1 through October 31 and implementing the avoidance and minimization measures described below would minimize, but not avoid, potential construction-related effects on juveniles and smolts.

Instream construction activities may cause mortality and reduced abundance of benthic aquatic macroinvertebrates within the erosion footprint, due to the placement of rock over the existing streambed. These effects to aquatic macroinvertebrates are expected to be long-term as permanent bank armoring alters the natural streambed.[73] The amount of food available for adult and juvenile salmonids in the Action Area is therefore expected to be permanently decreased in the areas where submerged riprap is being placed.

Over the lifetime of the project, winter-run Chinook salmon juvenile habitat is expected to show a long-term positive response to the Proposed Action based on the American River SAM analysis when both instream woody material (IWM) and planted benches are incorporated into with-project conditions.

Although winter and spring values of the WRI increase immediately above baseline conditions after construction for juvenile rearing of Chinook salmon, the values for summer and fall WRI remain below baseline conditions for up 15 years before they increase above baseline conditions, due to the time it takes after planting for vegetation to develop at Site 1-1. For juvenile migration the predicted recovery to baseline conditions is immediate in spring and winter, with recovery in fall taking 8 years. Therefore, although long-term habitat conditions at Site 1-1 for juvenile Chinook salmon are predicted to be substantially better than under baseline conditions, there would be a temporary adverse impact of the Proposed Action on juvenile Chinook salmon (including winter-run Chinook salmon) habitat. This impact would be significant.

Protection measures would generally provide long-term increases in bank shading at Project sites. Short-term impacts on SRA habitat would be reduced to a less-than-significant level with implementation of Mitigation Measures SRA-1, which would provide for the creation of off-site SRA habitat.

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71 Raleigh, R. F., Miller, W. J., & Nelson, P. C. (1986). Habitat suitability index models and instream flow suitability curves: chinook salmon. National Ecology Center.

72 Keefer, M. L., Caudill, C. C., Peery, C. A., & Moser, M. L. (2013). Context-dependent diel behavior of upstream-migrating anadromous fishes. Environmental biology of fishes, 96(6), 691-700.

73 U.S. Fish and Wildlife Service. 2004. Impacts of Riprapping to Aquatic Organisms and River Functioning, Lower Sacramento River, California. Sacramento, California. June 2004.

Spring-Run Chinook Salmon

Construction impacts of the Proposed Action on spring-run Chinook salmon have not changed from those described in Section 3.8.4 (page 173) of the ARCF GRR FEIS/FEIR. Long-term impacts were informed using SAM analysis like the methodology used for winter-run Chinook salmon. See Appendix C for details on updated SAM analysis methods and results.

Adult spring-run Chinook salmon migrate up the Sacramento River from March through September, although most individuals have entered tributary streams by mid-June and would not be affected by construction activities. Similar to winter-run Chinook salmon, spring-run Chinook salmon typically spend up to 1-year rearing in freshwater before migrating to sea. Therefore, the potential for construction-related effects would be like those described above for winter-run Chinook salmon. Construction related impacts would have a significant impact on spring-run Chinook salmon. With implementation of Mitigation Measures WQ-1, FISH-1, FISH-2, and FISH-3 this impact would be reduced to a less-than-significant level, as was described for winter-run Chinook salmon.

The Proposed Action would have a long-term beneficial effect on spring-run Chinook salmon habitat, but adverse impacts from vegetation removal on SRA habitat for juvenile salmon are expected to last for up to 15 years after construction, similar to what was described for winter-run Chinook salmon (see Appendix C). This would be a significant impact. Implementation of Mitigation Measure SRA-1, which would create off-site compensatory SRA habitat in the American River Parkway, would reduce this impact to a less-than-significant level.

Central Valley Fall/Late Fall–Run Chinook Salmon

Construction impacts on fall/late fall–run Chinook salmon have not changed from the Proposed Action effects described in Section 3.8.4 (pages 173–174) of the ARCF GRR FEIS/FEIR. Long-term impacts were informed using SAM analysis similar to the methodology used for other salmonids above. See Appendix C for details on updated SAM analysis methods and results.

Fall/late fall–run Chinook salmon migrate into the Sacramento River and its tributaries from June through December; therefore, construction activities would coincide with most of the migration period. Construction activities that increase noise, turbidity, and suspended sediment may disrupt adult passage through the Project Area and may displace these fish by affecting their preferred habitat and spawning habitat. The Project could represent a long-term loss of a small amount of potential spawning habitat because repairs would require covering bottom substrates with revetment. However, the extent of spawning area that might be affected would be very small. In general, channel areas immediately adjacent to erosion protection sites do not support spawning riffles. Long-term changes on nearshore habitat are expected to have adverse effects on habitat that is important to all life stages of fall/late fall–run Chinook salmon. These impacts on fall/late fall-run Chinook salmon would be significant. With implementation of Mitigation

Measures WQ-1, FISH-1, FISH-2, and FISH-3, this impact would be reduced to a less-than-significant level, as was described for winter-run Chinook salmon.

The Proposed Action would have a long-term beneficial effect on fall/late fall-run Chinook salmon habitat, but temporary adverse impacts from vegetation removal on SRA habitat for juvenile salmon could persist up to 17 years after construction, similar to the effects described for winter-run Chinook salmon (see Appendix C). This would be a significant impact. Implementation of Mitigation Measure SRA-1, which would create off-site compensatory SRA habitat in the American River Parkway, would reduce this effect to a less-than-significant level.

California Central Valley Steelhead

Construction impacts on steelhead have not changed from the Proposed Action effects described in Section 3.8.4 (pages 174–175) of the ARCF GRR FEIS/FEIR. Long-term impacts were informed using SAM analysis similar to the methodology used for other salmonids above See Appendix C for details on updated SAM analysis methods and results.

In the Sacramento River, adult steelhead migrate upstream during most months of the year, beginning in July, peaking in September, and continuing through February or March. Adults use the river channel in the Project Area as a migration pathway to upstream spawning habitat. They may also use deep pools with instream cover as resting and holding habitat. Juveniles and smolts are most likely to be present in the Project Area during their downstream migration to the ocean, which may begin as early as December and peaks from January to May. For purposes of this analysis, rearing juvenile steelhead are assumed to use nearshore and off-channel habitat in the Project Area. The potential for construction-related effects on steelhead juveniles and smolts and their habitat would therefore be similar to that described above for winter-run Chinook salmon. The potential for construction-related effects on steelhead would be like that described above for adult winter-run Chinook salmon. These impacts on steelhead would be significant. With implementation of Mitigation Measures WQ-1, FISH-1, FISH-2, and FISH-3 this impact would be reduced to a less-than-significant level.

Over the lifetime of the Project, California Central Valley steelhead juvenile habitat is expected to show a long-term positive response to the Proposed Action, based on the SAM analysis when both instream woody material (IWM) and planted benches are incorporated into with-project conditions (Appendix C). Juvenile steelhead migration showed a deficit in WRI values for Summer which lasts 7 years (Appendix C).

Although winter and spring values of the WRI increase immediately above baseline after construction for juvenile rearing of steelhead, the values for summer and fall remain below baseline for up to 12 years before they increase above baseline conditions, due to the time it takes after planting for vegetation to develop at Site 1-1. Therefore, although long-term habitat conditions at Site 1-1 for juvenile steelhead are predicted to be

substantially better than baseline conditions, the Proposed Action would cause a temporary adverse impact on juvenile steelhead habitat. This impact is considered significant.

Short-term impacts on SRA habitat would be reduced to a less-than-significant level with implementation of Mitigation Measures SRA-1, which would provide for the creation of off-site SRA habitat.

Potential spawning habitat is present in the American River in the ARCF GRR Project Area. Steelhead spawn in late winter and late spring, outside of the July 1 through October 31 work window. Therefore, Project construction is unlikely to affect steelhead spawning or steelhead spawning habitat.

Green Sturgeon

Green sturgeon critical habitat begins downstream of the Project Area, below the State Route 160 bridge, but no occurrences have been documented in the American River. Thus, green sturgeon are unlikely to be present during construction activities and no direct effects on sturgeon from construction are anticipated. Any downstream indirect effects are also unlikely because critical habitat ends approximately 2 miles downstream of the Project Area.

ARCF GRR FEIS/FEIR Mitigation Measures

The ARCF GRR FEIS/FEIR mitigation measures (pages 180-195) listed below are incorporated into the Proposed Action and revised or added to as described in the bullets below. These reflect the revised Project Area and current agency guidance. Implementing these mitigation measures would reduce impacts on special-status species to a less-than-significant level. Modifications of the ARCF GRR FEIS/FEIR mitigation measures are as follows.

- Mitigation for impacts on VELB was updated from the 1999. *Conservation Guidelines for the Valley Elderberry Longhorn Beetle*[74] to reflect the new 2017 *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle* USFWS guidelines for impacts to VELB.[75]
- Nesting seasons and buffer distances for nesting birds were added.
- A rodent abatement buffer of 100 feet around nesting burrowing owls was added.
- Mitigation for PLANT-1 was updated to include botanical surveys in areas where previous surveys were not conducted.
- The in-water work window to avoid impacts on listed fish species was changed from the period of August 1 to November 30 to the period of July 1 to October 31.

[74] U.S. Fish and Wildlife Service. 1999. *Conservation Guidelines for the Valley Elderberry Longhorn Beetle.* Sacramento, California. 15 pp.

[75] U.S. Fish and Wildlife Service. 2017. *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle* (*Desmocerus californicus dimorphus*). U.S. Fish and Wildlife Service; Sacramento, California. 28 pp.

- Additional Mitigation Measures are added for BATS-1, BADGER-1, and BEE-1.

Mitigation Measure VELB-1: Implement Current USFWS Avoidance, Minimization, and Compensation Measures for Valley Elderberry Longhorn Beetle. Project Partners would implement the following measures in accordance with the *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle*,[76] to reduce effects on valley elderberry longhorn beetle:

Avoidance and Minimization Measures

To reduce direct and indirect impacts on shrubs that would not be transplanted and that occur within 50 meters (165 feet) of the Project, the following measures would be implemented:

Fencing. All areas to be avoided during construction activities would be fenced and/or flagged as close to construction limits as feasible.

Avoidance area. Activities that may damage or kill an elderberry shrub (e.g., trenching, paving) may need an avoidance area of at least 6 meters (20 feet) from the dripline, depending on the type of activity.

Worker education. A qualified biologist would provide training for all contractors, work crews, and any on-site personnel on the status of the VELB, its host plant and habitat, the need to avoid damaging the elderberry shrubs, and the possible penalties for non-compliance.

Construction monitoring. A qualified biologist would monitor the initial groundbreaking activities, vegetation removal, installation of protective fencing, and would be present during all transplanting and trimming activities. Weekly site visits would also be conducted to ensure all mitigation measures are being implemented and maintained. Additional monitoring may be required per the USFWS BO.

Timing. As much as feasible, all activities that could occur within 50 meters (165 feet) of an elderberry shrub would be conducted outside of the flight season of the VELB (March–July).

Trimming. Trimming may remove or destroy VELB eggs and/or larvae and may reduce the health and vigor of the elderberry shrub. To avoid and minimize adverse effects on VELB when trimming, trimming would occur between November and February and would avoid the removal of any branches or stems that are 1 inch or larger in diameter unless they were approved and compensated for by following the USFWS requirements.

76 U.S. Fish and Wildlife Service. 2017. *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle* (*Desmocerus californicus dimorphus)*. Sacramento, California. 28 pp.

Chemical Usage. Herbicides would not be used within the dripline of the shrub. Insecticides would not be used within 30 meters (98 feet) of an elderberry shrub. All chemicals would be applied using a backpack sprayer or similar direct application method.

Mowing. Mechanical weed removal within the dripline of the shrub would be limited to the season when adults are not active (August–February) and would avoid damaging the elderberry shrub.

Erosion Control and Revegetation. Erosion control would be implemented, and the affected area would be revegetated with appropriate native plants.

Dust Control. Dust would be controlled by reducing speed limits to 10 miles per hour, regularly watering roads, and wetting down soil before removal and during placement.

Transplanting

Affected elderberry shrubs with one or more stems measuring 1.0 inch or greater in diameter at ground level that could feasibly be transplanted in accordance with the 2017 Framework must be transplanted to a mitigation site as approved by USFWS. Elderberry compensation would be planted in the Parkway, but outside of the Project Area (off-site) because of construction timing. Project Partners would find areas in the Lower American River Parkway to either expand existing compensation areas or provide connectivity between areas of conserved VELB habitat. Sites within the Lower American River Parkway would be coordinated with the Sacramento County Department of Regional Parks and USFWS during the design phase of the Project. Sites would be designed and developed in accordance with the criteria listed below before any effects on VELB habitat.

For impacts on VELB habitat at Site 1-1 (3.24 acres), the Project Partners would mitigate at a 3:1 ratio and create a total of 9.72 acres of VELB and riparian habitat off-site. The elderberry shrubs that would be affected would be transplanted to the Rio Americano East and West Mitigation Sites, and the Rossmoor East Site. These sites would be used for the transplantation and compensation for impacts on elderberry shrubs as described in the *Compensatory Mitigation* section below. The mitigation site acreage represents the acreage of woody vegetation planted for mitigation and does not include existing native woody vegetation within the mitigation sites boundaries, nor native grass plantings that form a 15-foot wide buffer around most of the perimeter of the woody plantings.

- **Monitor.** A qualified biologist would be on-site for the duration of transplanting activities to assure compliance with avoidance and minimization measures and other conservation measures (as listed above).
- **Exit Holes.** Exit-hole surveys would be completed immediately before transplanting. The number of exit holes found, the GPS location of the plant to

be relocated, and the GPS location where the plant is transplanted would be reported to USFWS and to the CNDDB.

- **Timing.** Elderberry shrubs would be transplanted when the shrubs are dormant (November through the first 2 weeks in February) and after they have lost their leaves. Transplanting during the non-growing season would reduce shock to the shrub and increase transplantation success.
- **Transplanting Procedure.** Transplanting would follow the most current version of the ANSI A300 (Part 6) guidelines for transplanting shrubs (http://www.tcia.org/).
- **Trimming Procedure.** Trimming would occur between November and February and should minimize the removal of branches or stems that exceed 1 inch in diameter.

Compensatory Mitigation

A Compensatory Mitigation Proposal would be prepared detailing the management of on-site and off-site lands. This plan would meet the standards for long-term management and protection of the site as outlined in USFWS's 2017 *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle* and the Habitat Mitigation, Monitoring, and Adaptive Management Plan for the ARCF GRR (December 2015). The Compensatory Mitigation Proposal would be prepared and submitted by USACE to USFWS for approval. It would include habitat goals that would be suitable for the western yellow-billed cuckoo and VELB, and would benefit Swainson's hawk, with specific information regarding site selection and development, a planting plan that includes appropriate buffers, success standards, monitoring specifications, and a reporting schedule with data as outlined in Section 6.1 and Appendix C of the 2017 Framework.

Site Selection and Development. Site selection would use a landscape-level approach that would benefit not only the VELB and western yellow-billed cuckoo, but all other species that rely on riparian habitat in the Parkway. Mitigation sites would focus on restoring riparian areas adjacent to the American River that would provide connectivity for VELB populations as described in the 2017 Framework.

Planting Plan. A planting plan would be prepared that would consider site specifics that would influence the success of the elderberry shrub and associated plantings and create a healthy riparian system. The plan would establish a diverse natural community with a complex vegetation structure that would support species present in the Project Area that rely on riparian habitat. The plan would be designed to achieve the following goals described in the 2017 Framework:

(1) Maximize the number of stems between 2 centimeters (0.8 inches) and 12 centimeters (4.7 inches).

(2) Minimize competition for sunlight and water. Native associates should be planted at a ratio of one native associate for every three elderberry plants.

(3) Achieve an average elderberry stem density of 240 stems per acre.

Buffers. An appropriate buffer would be established between mitigation lands and adjacent lands in accordance with the 2017 Framework.

Success Standards. Performance standards including survival rates, stem densities, and recruitment as outlined below and detailed in the 2017 Framework would be established and met to meet compensatory mitigation goals:

(1) A minimum of 60 percent of the initial elderberry and native associate plantings must survive over the first 5 years after the site is established. As much as feasible, shrubs should be well distributed throughout the site; however, in some instances, underlying geologic or hydrologic issues might preclude elderberry establishment over some portion of the site. If significant die-back occurs within the first 3 years, replanting may be used to meet the 60 percent survival criterion. However, replanting efforts should be concentrated in areas containing surviving elderberry plants. In some instances, overplanting may be used to offset the selection of a less suitable site.

(2) After 5 years, the site must show signs of recruitment. A successful site should have evidence of new growth on existing plantings as well as natural recruitment of elderberry shrubs. New growth is characterized as stems less than 3 centimeters (1.2 inches) in diameter. If no signs of recruitment are observed, the agency or applicant should discuss possible remedies with USFWS.

(3) The Performance Standards outlined in Appendix C of the 2017 Framework, Table 2 for VELB mitigation would be complied with for monitoring years 2 through 7. If performance standards are not met, additional years would be required to meet the performance standards and monitoring years would start over.

Monitoring. The population of VELB, the general condition of the mitigation site, and the condition of the elderberry and associated native plantings in the mitigation site should be monitored at appropriate intervals. In any survey year, a minimum of two site visits between February 14 and June 30 of each year must be conducted by a USFWS-approved biologist. As indicated in the 2017 Framework, surveys must include:

(1) A search for VELB exit holes in elderberry stems, noting the precise locations and estimated ages of the exit holes. The location of shrubs with exit holes should be mapped with a GPS. Because adult VELB are rarely encountered, targeted surveys for adults are not required. However, surveyors should record all adult VELB seen. Record photographs should be taken for all observations of adult VELB and their location mapped with a GPS. All exit-hole or adult VELB observations should be reported to the CNDDB.

(2) An evaluation of the success standards outlined above.

(3) An evaluation of the adequacy of the site protection (fencing, signage, etc.) and weed control efforts on the mitigation site. Dense weeds and grasses such as Bermuda grass (*Cynodon dactylon*) are known to depress elderberry recruitment and their presence should be controlled to the greatest extent practicable.

(4) An assessment of any real or potential threats to VELB and its host plant, such as erosion, fire, excessive grazing, off-road vehicle use, vandalism, and excessive weed growth.

(5) A minimum of 10 permanent photographic monitoring locations, established to document conditions present at the mitigation site. Photographs should be included in each report.

Reports. In accordance with the 2017 Framework, yearly survey reports would be submitted to USFWS within 6 months of the final survey each year for monitoring years 2–7 (2017 Framework, Appendix C).

Mitigation Measure BIRD-1: Avoid and Minimize Effects on Nesting Birds. To avoid and minimize effects on nesting birds, The Project Partners would implement the following measures:

- Before ground disturbance, all construction personnel would participate in a USFWS-approved worker environmental awareness program. A qualified biologist would inform all construction personnel about the life history of Swainson's hawk, western yellow-billed cuckoo, western burrowing owl, bank swallow, and other relevant species, as well as the importance of nest sites and foraging habitat.

- Where feasible, construction and maintenance activities that have the potential to affect special-status nesting birds and common nesting birds would occur at times of the year when adverse effects on those species would be avoided. If activities are conducted outside the nesting seasons specified in **Table 3-7**, no additional measures are required to mitigate adverse effects on nesting birds.

- A breeding season survey for nesting birds would be conducted by a qualified biologist for all trees and shrubs to be removed or disturbed that are located within 500 feet of construction activities, including grading. Swainson's hawk surveys would be completed during at least two of the following survey periods: January 1 to March 20, March 20 to April 5, April 5 to April 20, and June 10 to July 30. An area with a radius of 0.5 mile from construction activities would be surveyed for Swainson's hawk nests. No fewer than three surveys would be completed in at least two survey periods, and at least one of these surveys would occur immediately before project initiation.[77] Western burrowing owl surveys would follow suggested guidelines set forth in

[77] Swainson's Hawk Technical Advisory Committee. 2000. *Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley*. May 31, 2000.

CDFW's *Staff Report on Burrowing Owl Mitigation*[78] such as conducting three or more daytime survey visits at least 3 weeks apart during the peak of breeding season from April 15 to July 15. Other migratory bird nest surveys could be conducted concurrent with Swainson's hawk surveys, with at least one survey to be conducted no more than 48 hours from the initiation of project activities to confirm the absence of nesting. If the biologist determines that the area surveyed does not contain any active nests, construction activities, including removal or pruning of trees and shrubs, could commence without any further mitigation. If at any time during the nesting season construction stops for a period of 2 weeks or longer, pre-construction surveys would be conducted before construction resumes.

TABLE 3-7
NESTING SEASON FOR SPECIAL-STATUS AND COMMON NESTING BIRDS

Species	Nesting Season
White-tailed kite	February 1 to September 30
Bald eagle	January 1 to August 31
Northern harrier	March 1 to August 31
Swainson's hawk	March 1 to September 15
Western yellow-billed cuckoo	June 1 to August 15
Burrowing owl	Year-round: February 1 to August 31 (nesting); September 1 to January 31 (wintering)
Bank swallow	April 1 to August 31
Purple martin	February 1 to August 31
Common nesting birds (raptors, passerines, herons, and egrets)	February 1 to August 31

- If nesting birds have been identified within or adjacent to the construction footprint, The Project Partners would establish avoidance buffers as indicated in **Table 3-8**. Reduced buffers may be implemented if recommended by the monitoring biologist and approved by CDFW. Buffers would be marked in the field by a qualified biologist using temporary fencing, high-visibility flagging, or other means that are equally effective in clearly delineating the buffers. Specific buffer distances for burrowing owl, which vary depending on time of year and level of disturbance, are presented in **Table 3-9** in accordance with CDFW's *Staff Report on Burrowing Owl Mitigation.*[79] Reduced buffers for burrowing owl may be implemented if recommended by the monitoring biologist, due to the nature of the activity, and if approved by CDFW. For example, typical burrow avoidance distances during active construction are 160 feet during the non-breeding season, and 250-feet during the breeding season. Any needed burrowing owl exclusion and burrow closure would occur

78 California Department of Fish and Game. 2012. *Staff Report on Burrowing Owl Mitigation*. March 7, 2012.
79 California Department of Fish and Game. 2012. *Staff Report on Burrowing Owl Mitigation*. March 7, 2012.

during the non-breeding season only following the methodology in the CDFW *Staff Report.*

TABLE 3-8
REQUIRED BUFFER DISTANCES FOR NESTING BIRDS*

Resource	Buffer Distance
White-tailed kite	0.5 mile
Bald eagle	0.5 mile
Swainson's hawk	0.25 mile (urban); 0.5 mile (rural or during use of heavy equipment)
Western yellow-billed cuckoo	500 feet
Bank swallow	300 feet
Burrowing Owl	160 feet (non-breeding season) and 250-feet (breeding season)
Common nesting birds	100 feet (passerines); 300 feet (raptors); 200 feet (heron or egret rookeries)

NOTE: If maintaining these buffers is not feasible they can be reduced in coordination with CDFW and/or USFWS.

TABLE 3-9
RECOMMENDED RESTRICTED ACTIVITY DATES AND SETBACK DISTANCES BY LEVEL OF DISTURBANCE FOR BURROWING OWLS

Time of Year	Distance of Disturbance (feet) from Occupied Burrows Low Disturbance	Distance of Disturbance (feet) from Occupied Burrows Medium Disturbance	Distance of Disturbance (feet) from Occupied Burrows High Disturbance
April 1 to August 15	600	1,500	1,500
August 16 to October 15	600	600	1,500
October 16 to March 31	150	300	1,500

NOTES:
Low = Presence of maintenance staff on foot or in vehicles conducting work with light equipment (maintenance trucks, all-terrain vehicles).
Medium = Heavy equipment use with moderate noise levels (approximately 50–75 A-weighted decibels [dBA]).
High = Heavy equipment with high noise levels (more than 75 dBA).

SOURCE: California Department of Fish and Game. 2012. *Staff Report on Burrowing Owl Mitigation*. March 7, 2012.

- Tree and shrub removal and work in other areas scheduled for vegetation clearing, grading, or other construction activities would not be conducted during the nesting season (generally February 15 through September 30, depending on the species and environmental conditions for any given year) where feasible.

- During rodent abatement efforts, no fumigation, use of treated bait, or other means of poisoning nuisance animals would occur within 100 feet of areas

where burrowing owls are known to occur (e.g., burrows with observed nesting owls).

Mitigation Measure TURTLE-1: Implement Measures to Avoid and Minimize Effects on Western Pond Turtle. The Project Partners would implement the following measures to avoid and minimize effects on western pond turtle:

- A qualified biologist would conduct a pre-construction survey within 7 days before the start of Project activities. If no western pond turtles are observed, the Project Partners would document that information for the file, and no additional measures would be required, except as described below for dewatering activities.

- Should any western pond turtles be detected on land during the pre-construction survey, the qualified biologist would identify the location using GPS coordinates. With prior CDFW approval, a qualified biologist may relocate any western pond turtles found on land or in aquatic habitat within the construction footprint to suitable aquatic habitat at least 200 feet away from the construction footprint.

- If western pond turtles are observed on land within the construction footprint during Project activities, The Project Partners would stop work within approximately 200 feet of the turtle, and a qualified biologist would be notified immediately. If possible, the turtle would be allowed to leave on its own and the qualified biologist would remain in the area until the biologist deems his or her presence no longer necessary to ensure that the turtle is not harmed. Alternatively, with prior CDFW approval, the qualified biologist may capture and relocate the turtle unharmed to suitable habitat at least 200 feet outside the construction footprint. If a western pond turtle nest is unintentionally uncovered during Project activities, work would stop in the vicinity of the nest and USACE and/or CVFPB would contact CDFW to determine the appropriate next steps.

Mitigation Measure PLANT-1: Implement Measures to Avoid and Minimize Effects on Special-Status Plants. To avoid and minimize effects on these known and potentially occurring plants, the Project Partners would implement the following measures:

- Prior to construction, botanical inventories shall be conducted during the identifiable periods for Sanford's arrowhead (blooms May-October), bristly-sedge (blooms May-September), and woolly rose-mallow (blooms June-September) within Site 1-1.

- Sanford's arrowhead, bristly-sedge, and woolly rose-mallow plants identified during rare-plant surveys would be marked or fenced off as an avoided area during construction if they occur outside of the construction footprint. A qualified biologist would establish a buffer of at least 25 feet around the

plants. If a buffer of 25 feet is not possible, the next maximum possible distance would be fenced off as a buffer.

- If Sanford's arrowhead, bristly-sedge, or woolly-rose mallow are located within the construction footprint and cannot be avoided during construction, the botanist shall establish distribution of the individuals in the population. A detailed relocation and mitigation/conservation plan that includes long-term strategies for the conservation of the species should be developed in coordination with CDFW upon confirming the presence of this species in the Project Area.

- If operations and maintenance activities are to occur near plants, a qualified biologist would mark their location with pin flags. The qualified biologist would instruct all personnel conducting the O&M activities regarding the location, appearance, and extent of these plants and the importance of avoiding impacts on this species.

- Herbicides would not be used within 3 meters (10 feet) of a known Sanford's arrowhead plant and a potentially occurring Sanford's arrowhead, bristly-sedge, or woolly rose-mallow plant. All chemicals would be applied using a backpack sprayer or similar direct application method.

Mitigation Measure FISH-3: Implement Measures to Avoid and Minimize Effects on Listed Fish Species. To avoid and minimize effects on listed fish species, the following measures would be implemented: In-water construction activities (e.g., placement of rock revetment) would be limited to the work window of July 1 through October 31. If the Project Partners need to work outside of this window, it would consult with USFWS and NMFS.

- Erosion control measures (BMPs) would be implemented, including a Storm Water Pollution Prevention Plan and Water Pollution Control Plan, to minimize the entry of soil or sediment into the American River. BMPs would be installed, monitored for effectiveness, and maintained throughout construction operations to minimize effects on Federally listed fish and their designated critical habitat. Maintenance would include daily inspections of all heavy equipment for leaks.

- The Project Partners would participate in an existing Interagency Working Group or work with other agencies to participate in a new Bank Protection Working Group to coordinate stakeholder input into future flood risk reduction actions associated with the ARCF 2016 Project, American River Contract 3A.

- The Project Partners would coordinate with NMFS during pre-construction engineering and design as future flood risk reduction actions are designed to ensure that conservation measures are incorporated to the extent practicable and feasible and projects are designed to maximize ecological benefits.

- The Project Partners would include a Riparian Corridor Improvement Plan as part of the Project, with the overall goal of maximizing the ecological function and value of the existing levee system in the Sacramento metropolitan area.

- The Project Partners would implement an ARCF GRR Habitat Mitigation Monitoring and Adaptive Management Plan (HMMAMP) with an overall goal of ensuring that the conservation measures achieve a high level of ecological function and value. In addition, per the NMFS 2021 BO, a site specific long term management plan (LTMP) and an overarching habitat management plan (HMP) that outlines O&M requirements will be prepared as a complimentary supplemental document to the HMMAMP (See FISH-4 below for additional details). The HMMAMP would include:

    - Specific goals and objectives and a clear strategy for maintaining all project conservation elements for the life of the Project.

    - Measures to be monitored by the Project Partners for 10 years after construction. The Project Partners would update its O&M manual to ensure that the HMMAMP is adopted by the local sponsor to ensure that the goals and objectives of the conservation measures are met for the life of the Project.

    - Specific goals and objectives and a clear strategy for achieving full compensation for all Project-related impacts on listed fish species.

- The Project Partners would continue to coordinate with NMFS during all phases of construction, implementation, and monitoring by hosting annual meetings and issuing annual reports throughout the construction period as described in the HMMAMP.

- The Project Partners would seek to avoid and minimize adverse construction effects on listed species and their critical habitat to the extent feasible and would implement on-site and off-site compensation actions as necessary.

- For identified designated critical habitat, where feasible all efforts will be made to compensate for impacts as close as possible to the place of occurrence. The SAM has been used throughout the Sacramento River basin and Delta flood control system to inform impacts to designated critical habitat, SRA, and instream components. Estimates of suitable habitat will be verified in the field by the Project Partners prior to initiating proposed actions to determine the extent of suitable habitat present NMFS. The Project Partners would develop and implement a compensatory mitigation accounting plan to ensure the tracking of compensatory measures associated with implementation of the Proposed Action. The Project Partners would continue to coordinate with NMFS after construction during the monitoring periods for habitat establishment via written monitoring reports, electronically, and through site visits as requested. The Project Partners would minimize the removal of existing riparian vegetation and IWM to the maximum extent practicable.

Where appropriate, removed IWM would be anchored back into place, or if not feasible, new IWM would be anchored in place.

- The Project Partners would ensure that the planting of native vegetation would occur as described in the HMMAMP. All plantings must be provided with the appropriate amount of water to ensure successful establishment.
- The Project Partners would provide a copy of the BO, or similar documentation, to the prime contractor, making the prime contractor responsible for implementing all requirements and obligations included in the documents and for educating and informing all other contractors involved in the Project as to the requirements of the BO.
- A NMFS-approved Worker Environmental Awareness Training Program for construction personnel would be conducted by the NMFS-approved biologist for all construction workers before the start of construction activities. Written documentation of the training would be submitted to NMFS within 30 days of the completion of training.
- The Project Partners would consider installing IWM of at least 40 percent shoreline coverage at all seasonal water surface elevations in coordination with the Interagency Working Group or the Bank Protection Working Group. The purpose is to maximize the refugia and rearing habitats for juvenile fish.
- The Project Partners would consider varying the elevation of planting benches and IWM to accommodate a wide variety of water years and ensure there is ample shoreline habitat in different flow scenarios.
- The Project Partners would monitor turbidity during in-water work activities to ensure levels stay below the allowable thresholds (turbidity measured 1,000 feet downstream of the extent of the site is not to exceed double the upstream of site turbidity measurement).
- Screen any water pump intakes, as specified by the 2011 NMFS screening specifications.[80] Water pumps would maintain an approach velocity of 0.2 feet per second or less. Screen openings would be for a perforated plate: circular or square openings shall not exceed 3/32 inch (2.38 millimeters [mm]), measured on a side, and slotted or rectangular screen face openings must not exceed 1.75 mm (approximately 1/16 inch) in the narrow direction. Screen material shall provide a minimum of 27 percent open area.

Mitigation Measure FISH-4: Implement Measures to Avoid and Minimize Effects on Listed Fish Species. In 2015, NMFS issued a Biological Opinion (BO) for the ARCF GRR consultation for levee improvements and bank protection, including bank protection along the lower American River. In 2020, the *NMFS Biological Assessment for the American River Common Features*

[80] National Marine Fisheries Service. 2011. Anadromous Salmonid Passage Facility Design. NMFS, Northwest Region, Portland, OR. Available: https://www.dfw.state.or.us/fish/passage/docs/fish_passage_design_criteria.pdf.

WRDA 2016 Project (2020 NMFS BA) was prepared to reinitiate consultation with NMFS to provide new information related to site-specific details for the Proposed Action and in 2021 a new BO was issued.[81] The 2021 NMFS BO evaluated impacts to Sacramento River winter-run and Central Valley spring-run Chinook salmon, California Central Valley steelhead, and green sturgeon, as well as their critical habitat. The BO evaluated potential impacts based on rough estimates and preliminary designs for the proposed Project. To avoid and minimize effects on listed fish species, the following measures from the 2021 NMFS BO would be implemented:

- The Project Partners would provide NMFS with a site-specific project description prior to advertising for construction contracts of any sites. The project description would include a design at or beyond the 65% level, anticipated impacts, and proposed mitigation ratios for the site. NMFS would provide written approval that the site is consistent with this opinion prior to construction, NMFS would respond within 14 days of receiving site-specific documents.

- The Project Partners would provide to NMFS (at the address below) a vegetation monitoring report at years 1, 2, 3, 5, and 8 post-construction no later than December 31st of each reporting cycle. This report would provide information as to the success of the revegetation program and whether the conservation goals are being met at each site. If goals are not being met, then the report would indicate what actions are being implemented to meet those goals.

- The Project Partners would submit a report to NMFS of any incidental take that occurs as part of the Project. This report would be submitted no later than December 31 of each reporting cycle.

- The Project Partners would ensure that the NMFS Central Valley Office is involved with the discussions, development, and tracking of the SAM model development.

- The Project Partners would provide NMFS a detailed O&M plan for all aspects of the proposed action, to ensure all sites are properly managed and the Design Deviation allowing vegetation to remain is followed. This plan would be incorporated into the O&M manual.

- The Project Partners would provide NMFS a LTMP outlining the maintenance of all on-site and off-site mitigation. The plan would include performance goals, monitoring plans, replanting plans, and an adaptive management plan for how mitigation will be addressed if the mitigation site fails.

81 National Marine Fisheries Service. 2021. Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the American River Common Features General Reevaluation Report Reinitiation. May 12, 2021.

Mitigation Measure SRA-1: Implement Measures to Avoid, Minimize, and Compensate for Effects on Shaded Riverine Aquatic Habitat. The Project Partners would implement the following avoidance, minimization, and compensation measures:

- For identified designated critical habitat of listed fish species, where feasible, all efforts would be made to compensate for impacts where they have occurred, or elsewhere in the American River Parkway. Impacts on designated critical habitat, SRA habitat, and instream components combined and the compensation value of replacement habitat would be informed by a qualitative assessment of habitat value from the SAM model used throughout the Sacramento River basin and Sacramento–San Joaquin Delta flood control system. Amount of mitigation would be assessed using the slope-area method combined with the qualitative assessment.

- The Project Partners would incorporate compensation for SRA habitat losses by constructing off-site compensation sites, such as Arden Pond and others and if needed, purchasing additional credits at a NMFS-approved conservation bank, where appropriate, or by implementing a combination of the two. The Project Partners would compensate for lost habitat using NMFS-approved mitigation actions as approved in the 2021 NMFS BO. Off-site mitigation in the Lower American River would benefit fall-run Chinook, late fall-run Chinook and steelhead. Riparian plantings will be installed onsite on planting benches where feasible in NMFS approved mitigation sites. If the Project Partners find that onsite and offsite permittee responsible mitigation and mitigation bank opportunities have been exhausted, they will approach the resource agencies regarding the potential use of in-lieu fees for remaining mitigation needs.

- Compensation sites would be monitored, and vegetation would be replaced as necessary based on performance standards in the ARCF GRR HMMAMP and according to the conditions in the NMFS 2021 BO.

Summary

The mitigation measures in the ARCF GRR FEIS/FEIR, as modified above, would reduce the impacts on special-status species addressed in that document to a less-than-significant level. The ARCF GRR FEIS/FEIR did not consider impacts on special-status bats, American badger, or the Crotch bumble bee and, therefore, there would be a residual significant impact. Implementation of the following new Mitigation Measures BATS-1, BADGER-1, and BEE-1 would reduce impacts from the Proposed Action on special-status bats, American badger, and the Crotch bumble bee, respectively, to a less-than-significant level.

Additional Mitigation Measures

Implementation of the following additional Mitigation Measures BATS-1 and BADGER-1 not provided for in the ARCF GRR FEIS/FEIR would reduce impacts on special-status bats and American badger, respectively, to a less-than-significant level.

Mitigation Measure BATS-1: Implement Measures to Protect Maternity Roosts of Special-Status Bats. The ARCF GRR FEIS/FEIR does not identify a significant impact associated with special-status bats. Therefore, the following is a new mitigation measure. The Project Partners would implement the following measures to avoid and minimize effects on special-status bats, including pallid bat and western red bat:

- When possible, removal of trees identified as providing suitable roosting habitat should be conducted during seasonal periods of bat activity, including:
    - Between March 1 and April 15, and after evening temperatures rise above 45 degrees Fahrenheit and/or no more than ½ inch of rainfall within 24 hours occurs; or
    - Between September 1 and about October 15, and before evening temperatures fall below 45 degrees Fahrenheit and/or more than ½ inch of rainfall within 24 hours occurs.

- If removal of trees must occur during the bat pupping season (typically April-July), within 30 days of tree removal activities, all trees to be removed shall be surveyed by a qualified biologist for the presence of features that may function as special status bat maternity roosting habitat. Trees that do not contain potential special status maternity roosting habitat may be removed. For trees that contain suitable special status bat maternity roosting habitat, surveys for active maternity roosts shall be conducted by a qualified biologist in trees designated for removal. The surveys shall be conducted from dusk until dark.

- If a special-status bat maternity roost is located, appropriate buffers around the roost sites shall be determined by a qualified biologist and implemented to avoid destruction or abandonment of the roost resulting from tree removal or other Project activities. The size of the buffer shall depend on the species, roost location, and specific construction activities to be performed in the vicinity. High-visibility construction fencing would be installed around the buffer and would remain in place until the tree is no longer occupied by bats. No Project activity shall commence within the buffer areas until the end of the pupping season (September 1) or until a qualified biologist confirms the maternity roost is no longer active. If construction activities must occur within the avoidance buffer, then the activities would be monitored by a qualified biologist either continuously or periodically during work, as determined by the qualified biologist. The qualified biologist would be empowered to stop activities that, in the biologist's opinion, threaten to cause unanticipated and/or unpermitted adverse effects on special-status bats. If construction activities are stopped, the biological monitor would inform the Project Partners, and CDFW would be consulted to determine appropriate measures to minimize adverse effects.

- All trees designated for removal would be surveyed by a qualified biologist to identify features that provide habitat for roosting bats., such as cracks, crevices, or bark fissures for trees containing suitable bat roosting habitat that are planned for removal or trimming (irrespective of the time of year). Live trees that are indicated to contain roosting habitat trees should be removed in a two-phase removal system conducted over two consecutive days. The first day, under supervision of the biological monitor, limbs and branches would be removed. Removal activities on the first day should avoid limbs with bat habitat features for roosting bats and remove only branches or limbs without those features. On the second day, the entire tree would be removed and gently lowered to the ground. Tree material removed on the second day should be left undisturbed for the next 48-hours, as feasible. If it is not feasible to remove a tree using the two-phased approach, limbs containing habitat features should be removed and left undisturbed near the felled tree for 48-hours. A qualified biologist would monitor removal of these trees. If tree trimming results in the removal of vegetation that contains potential bat habitat, vegetation should be gently lowered to the ground and left near the tree for 48-hours prior to removal, as feasible.

- A qualified biologist would conduct a pre-construction emergence survey for special-status bats within 14 days before the start of work within 250 feet of the railroad and Interstate 80 Bridges. The survey would be conducted 1 hour before dusk to 1 hour after dusk to identify whether special-status bats are occupying the bridges as day roosts. If special-status bats are found roosting beneath any of these bridges and work would occur within 250 feet of the roost, a qualified biologist will monitor the bats and establish appropriate buffers if needed. If maternity roosts are found, they would be avoided by at least 250 feet until the offspring have fledged. If avoidance is not feasible, additional mitigation would be developed in consultation with CDFW.

Mitigation Measure BADGER-1: Implement Measures to Avoid and Minimize Effects on American Badger. The ARCF GRR FEIS/FEIR did not identify a significant impact on American badger. Therefore, the following is a new mitigation measure. The Project Partners would implement the following measures to avoid and minimize effects on American badger.

- The Project Partners would conduct pre-construction clearance surveys for American badgers. These surveys would be conducted within 14 days of the start of any ground-disturbing activity. If no potential American badger dens are present, no further mitigation is necessary.

- If a potential American badger den is discovered but deemed inactive, the qualified biologist would excavate the den during the initial clearance survey to prevent badgers from reoccupying the den during the construction period.

- If found to be present, occupied badger dens would be flagged and ground-disturbing activities would be avoided within 50 feet of an occupied den.

Maternity dens would be avoided during pup-rearing season (February 15 through July 1) and a minimum 200-foot buffer would be established.

- If avoidance of a non-maternity den is not feasible, badgers would be relocated by carefully evacuating the burrow (either by hand or using mechanized equipment, under the direct supervision of a qualified biologist) before or after the rearing season (February 15 through July 1). Any relocation of badgers would occur only after consultation with CDFW.

Mitigation Measure BEE-1: Implement Measures to Avoid and Minimize Effects on Crotch Bumble Bee. To avoid and minimize effects on Crotch bumble bee, the Project Partners would implement the following measure:

- Before construction activities, a qualified biologist would conduct a pre-construction survey, during the flight period for worker and male bees late March through September, within the construction disturbance area for active Crotch bumble bee nests. If an active bumble bee nest is located, recommendations for avoiding or minimizing disturbance of the colony would be developed (e.g., establishing a buffer surrounding entry/exits and avoiding direct disturbance). During rodent abatement efforts, no fumigation, use of treated bait, or other means of poisoning nuisance animals would occur within 100 feet of areas where Crotch bumble bees are known to occur (e.g., burrows with observed nesting bees).

3.7 Cultural Resources

3.7.1 Environmental Setting

3.7.1.1 Regulatory Setting

The regulatory setting in the ARCF GRR FEIS/FEIR (page 195) is generally applicable to the analysis in this Supplemental EIR and is not repeated here.

3.7.1.2 Existing Conditions

The area within which cultural resources are identified and within which potential effects to historic properties are analyzed is called the Area of Potential Effects (APE). The APE for the Proposed Action includes the project footprint (the area where any ground-disturbance would occur), such as bank excavation, riprap placement, and staging areas. These areas are described in detail in Chapter 2, *Alternatives*. The APE includes the area within which built-environment resources could be affected physically, including through vibration. No permanent substantial visual or auditory changes would occur as a result of implementation of the Proposed Action; therefore, no area of indirect effect (the area in which changes in the visual or auditory setting may occur) has been identified. The vertical extent of the project APE is variable but would have a maximum depth of up to approximately 18 feet below ground surface for bank excavation and placement of buried rock.

The APE for the Proposed Action may contain Native American human interments and artifacts of past human activity ranging from Native American sites to flood control structures. USACE has consulted with the State Historic Preservation Officer (SHPO) and other parties regarding the APE and executed a Programmatic Agreement (PA) to guide compliance with Section 106 of the National Historic Preservation Act (NHPA). USACE uses effects determinations arrived at through Section 106 compliance to assess effects to cultural resources under NEPA and to mitigate for adverse effects under both laws.

The PA, titled *Programmatic Agreement Among the U.S. Army Corps of Engineers and the California State Historic Preservation Officer Regarding the American River Common Features Project, Sacramento and Yolo Counties, California*, and executed on September 10, 2015, establishes the process USACE will follow to comply with Section 106 of the NHPA, taking into consideration the views of the signatory and concurring parties and interested Native American Tribes. The PA stipulates time frames and document review procedures; delineation of project APEs; development of a Historic Properties Management Plan (HPMP) to guide identification, evaluation, and findings of effect; Historic Property Treatment Plans (HPTPs) to identify treatment for historic properties that would be adversely affected; a process to guide limited geotechnical investigations; Native American consultation procedures; and other processes and implementation procedures. The Project HPMP was completed in June 2017. The term "historic property" refers to any cultural resource that has been found eligible for listing, or is listed, in the National Register of Historic Places (NRHP).

Native American Consultation

USACE is the lead Federal agency responsible for compliance with Section 106 of the NHPA and has conducted consultations with Native American Tribes and interested parties according to the PA. Several Native American Tribes and interested parties were contacted while developing the PA and provided with general information about the ARCF 2016 Project. Consultations specifically related to the Proposed Action are a continuation of the ongoing process. All Native American Tribes identified in the PA have been contacted and provided a description of the Proposed Action and requested to provide information on resources important to Native Americans. Consultation with Native American Tribes is ongoing.

The CVFPB is the State lead agency responsible for CEQA compliance. The California Natural Resources Agency adopted the California Natural Resource Agency Final Tribal Coordination Policy on November 20, 2012, which was developed in response to Governor Brown's September 19, 2011 Executive Order B-10-11. The CVFPB has adopted this Policy. Accordingly, Native American consultation for CEQA compliance will be conducted in accordance with the Policy adopted by the CVFPB. The purpose of the Policy is to ensure effective, meaningful, and mutually beneficial government-to-government consultation, communication, and coordination between the CVFPB and tribal entities relative to activities under the CVFPB's jurisdiction that my affect tribal communities. USACE and the CVFPB has contacted Native American contacts identified by the California Native American Heritage Commission (NAHC) in an effort to identify

cultural resources important to Native Americans, including Tribal Cultural Resources (TCRs) as defined in California Public Resources Code Section 21074, that may be present in the project area.

Identification of Potential Historic Properties

Records searches conducted at the North Central Information Center (NCIC) on October 21, 2019, and the Northwest Information Center (NWIC) on November 2021, identified one recorded potential Historic Property within the Proposed Action APE: P-34-005121, American River Railroad Bridge, a 1910 stationary truss railroad bridge associated with the Central Pacific Railroad.

Letters describing the Proposed Action APE were mailed to potentially interested Native American Tribes on October 8, 2019 by USACE. Responses were received from the Shingle Springs Band of Miwok Indians, Wilton Rancheria, and the United Auburn Indian Community (UAIC) requesting additional information and to consult on the project. Consultation is ongoing; at this time, no specific information has been received regarding potential historic properties, defined according to NHPA, or Native American–identified TCRs, defined according to State law.

The Proposed Action APE was surveyed on November 15, 2021, by professional archaeologists meeting the Secretary of the Interior (SOI) requirements joined by UAIC representatives. These surveys were conducted using intensive standards (transects spaced no more than 15 meters apart). A Trimble 7 Series GPS unit capable of sub-meter accuracy was carried to record the location of any identified resources. Hard copy maps were used to ensure adequate coverage of the APE. No cultural resources were identified.

Much of the Proposed Action APE is covered in pavement, structures, levees, landscaped, or consists of very steep terrain and is heavily vegetated. No archaeological resources were identified during the pedestrian survey. As noted above, one cultural resource was identified in the Proposed Action APE.

Based on the record search, background research, pedestrian survey, and consultation with interested Native American Tribes, USACE has found that the Proposed Action would result in No Adverse Effect to historic properties.

3.7.2 Methodology and Basis of Significance

3.7.2.1 Methodology

For those resources recommended to be eligible for listing in the NRHP/California Register of Historical Resources (CRHR), analysis of the effects or likely effects was based on evaluation of the changes to the existing historic properties that would result from implementing the Proposed Action. In making a determination of the effects on Historic Properties, consideration was given to:

- Specific changes in the characteristics of Historic Properties in the APE;

- The temporary or permanent nature of changes to Historic Properties and the visual area around the Historic Properties; and
- The existing integrity considerations of Historic Properties in the APE and how the integrity was related to the specific criterion (or criteria) that makes a Historic Property eligible for listing in the NRHP.

An assessment of effects for the purposes of this Supplemental EIR and a determination of effect under Section 106 of the NHPA is made only for those resources determined to be eligible for listing in the NRHP. Resources that have been found or recommended to be ineligible for listing in the NRHP are not considered further in this Supplemental EIR. Similarly, because isolated artifacts are generally not considered to be potentially eligible for listing in the NRHP and because an assessment of effects for the purposes of this Supplemental EIR and a determination of effects under Section 106 of the NHPA is made only for those resources determined to be eligible for listing in the NRHP or that are listed in the NRHP, isolated artifacts are not considered to be Historic Properties and an assessment of effects on those resources is not necessary. Therefore, isolated artifacts are not considered further in this Supplemental EIR.

This evaluation of potential effects on cultural resources is based on detailed information compiled since the ARCF GRR FEIS/FEIR was prepared, as described above under "Existing Conditions." The effects analysis considered the following factors related to the Proposed Action: project elements, including erosion counter measures, staging areas, potential effect mechanisms; the area that would be temporarily and permanently disturbed; known or potential locations of cultural resources, including locations identified by Native Americans as cultural landscapes, traditional cultural properties, sacred sites or other sensitive resources. In particular, the significance of each effect was evaluated in terms of its potential effect on resources that are eligible or potentially eligible for listing in the NRHP/CRHR. The mitigation identified in the ARCF GRR FEIS/FEIR for potential impacts on cultural resources included implementing stipulations of the ARCF PA.

USACE has not concluded determinations of NRHP eligibility for components of the Proposed Action based on consultation with SHPO and other ARCF PA Parties and, therefore, the impact analysis presented in this document does not reflect consensus findings under Section 106 of the NHPA as implemented through the ARCF PA. In accordance with the ARCF PA, confirmation of NRHP eligibility and findings of effect and appropriate mitigation would be made through consultation between USACE, SHPO, and other ARCF PA Parties as appropriate prior to initiating construction of the Proposed Action.

3.7.2.2 Basis of Significance

The following analysis uses the same basis of significance described in Section 3.9 (page 195) of the ARCF GRR FEIS/FEIR. Any adverse effects on cultural resources listed or eligible for listing in the NRHP (i.e., historic properties) are considered

significant. 36 CFR 800.5(a)(1) provides criteria for assessing an adverse effect. Effects are considered to be adverse under Section 106 of the NHPA if they:

- Alter, directly or indirectly, any of the characteristics of a cultural resource that qualify that resource for the NRHP so that the integrity of the resource's location, design, setting, materials, workmanship, feeling, or association is diminished.
- Cause a substantial adverse change in the significance of a historic property through the physical demolition, destruction, relocation, or alteration of the historic property of its immediate surroundings such that the significance of the resource would be materially impaired.

Under California law (i.e., CEQA), effects on a historic resource or unique archaeological resource are considered to be adverse if they:

- Materially impair the significance of a historic resource or unique archaeological resource.
- Require the demolition of a historic resource.

Two additional significance thresholds not included in the 2016 ARCF GRR FEIS/FEIR are considered in this analysis. The project would be determined to result in a potentially significant effect if it would:

- Disturb any Native American human remains, including those interred outside of formal cemeteries; or
- Result in a substantial adverse change in the significance of a Tribal Cultural Resource (as defined in California Public Resources Code [PRC] Section 21074 and above) when compared against existing conditions.

3.7.3 Impact Analysis

3.7.3.1 No Action/No Project Alternative

Under the No-Action Alternative, USACE would not construct the proposed erosion protection measures. As a result, if a flood event were to occur, the Sacramento area would remain at the same level of risk of a possible levee failure due to erosion as today. Continued severe erosion has the potential to destroy buried cultural resources or to expose them to the surface, increasing the possibility of damage from both natural forces and man-made impacts.

Potential levee failure and the resulting major flooding event could alter existing conditions by burying, destroying, or revealing cultural resources. Failure of the levee and subsequent flooding would trigger post-failure emergency repairs. Flooding could result in significant damage to cultural resources in a large geographic area through erosion and inundation. The required post-failure emergency repairs could have a large footprint, and the urgent need to immediately repair the levee would preclude proper

planning and environmental protection. These effects on cultural resources would be significant. However, the timing, duration, and magnitude of such a flood is unpredictable, and therefore a precise determination of significance is not possible.

3.7.3.2 Proposed Action

Erosion protection measures would include substantial ground disturbance, including bank excavation and riprap placement, and use of staging areas. These earthmoving activities could result in damage to or destruction of unknown or subsurface historic-period sites, prehistoric-period archaeological sites, and Native American–identified TCRs.

One potential historic property is located within the Proposed Action APE: P-34-005121, American River Railroad Bridge, a 1910 stationary truss railroad bridge associated with the Central Pacific Railroad. In accordance with the ARCF PA, confirmation of NRHP eligibility and findings of effect and appropriate mitigation would be made through consultation between USACE, SHPO, and other ARCF PA Parties as appropriate prior to initiating construction of the Proposed Action.

Unknown archaeological resources and TCRs also could be discovered and inadvertently damaged during project construction.

Implementing Mitigation Measures CR-1, CR-2, CR-3, CR-4, and CR-5 described below would reduce the potential impact related to inadvertent damage to or destruction of presently undocumented archaeological resources and TCRs to a less-than-significant level under CEQA because the measures would require that if archaeological resources or TCRs are discovered prior to or during project-related construction, appropriate treatment and protection measures must be implemented.

Although no Native American human remains have been discovered in or near the APE, they could be encountered during earthmoving activities associated with the project. This potential impact related to inadvertent damage to or destruction of presently undocumented human remains would be significant. Implementing the new mitigation measure (Mitigation Measure CR-6) described below would reduce the impact to a less-than-significant level because it requires disturbances in the area of a find must be halted and appropriate treatment and protection measures must be implemented. All of this measure must be done in consultation with the NAHC, Most Likely Descendant (MLD), and landowners, in compliance with California Health and Safety Code Section 7050 et seq. and PRC Section 5097.9 et seq.

Avoidance, Minimization, and Mitigation Measures

The following mitigation measures augment the mitigation identified in the ARCF GRR FEIS/FEIR, including actions to address TCRs under CEQA and specifically address discovery of archaeological resources and human remains. If the project is implemented, USACE and the CVFPB would implement the measures as described.

Mitigation Measure CR-1: Resolve Adverse Effects through a Programmatic Agreement and Historic Properties Treatment Plan. A Programmatic Agreement has been executed for the ARCF Project. A Historic Properties Treatment Plan (HPTP) would be developed if the proposed action is found to result in adverse effects.

Mitigation Measure CR-2: Prepare an Archaeological Discovery Plan and an Archaeological Monitoring Plan. In accordance with the procedures described in Section 9.2 of the ARCF HPMP, an archaeological discovery plan would be developed for the Proposed Action. The discovery plan would specify what actions must be taken by the contractor in the event of an archaeological discovery and describe what actions USACE may take in the event of a discovery.

In accordance with the procedures described in Section 9.3.9 of the ARCF HPMP, an archaeological monitoring plan would be developed for the Proposed Action. This plan would identify the locations of known Historic Properties as well as sensitive areas designated for archaeological monitoring, and would include methods and procedures for monitoring and the procedures to be followed in the event of a discovery of archaeological materials.

Mitigation Measure CR-3: Conduct Cultural Resources Awareness Training. In accordance with the procedures described in Section 9.1 of the ARCF HPMP, USACE would require the contractor to provide a cultural resources and TCRs sensitivity and awareness training program for all personnel involved in project construction, including field consultants and construction workers. The training would be developed in coordination with and delivered by an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for Archaeology, as well as culturally affiliated Native American tribes. USACE may invite Native American representatives from interested culturally affiliated Native American tribes to participate.

Mitigation Measure CR-4: Implement Procedures for Discovery of Cultural Material. If the discovery of cultural materials (e.g., unusual amounts of shell, animal bone, any human remains, bottle glass, ceramics, building remains), TCRs, sacred sites, or landscapes is made at any time during project-related construction activities, USACE in consultation with the CVFPB and other interested parties would develop appropriate protection and avoidance measures where feasible. These procedures would be developed in accordance with the ARCF PA and ARCF HPMP, which specifies procedures for post-review discoveries. Additional measures, such as development of HPTPs prepared in accordance with the PA and HPMP, may be necessary if avoidance or protection is not possible.

Mitigation Measure CR-5: Evaluate Any Tribal Cultural Resources Discovered and Implement Avoidance and Minimization Measures to Avoid Significant Adverse Effects. California Native American Tribes have expertise regarding TCRs (PRC Section 21080.3.1). Consistent with the California Natural Resources Agency Tribal Consultation Policy, culturally affiliated Tribes would

be consulted concerning TCRs that may be affected, if these types of resources are discovered before or during construction. Consultation with culturally affiliated Tribes would focus on identifying measures to avoid or minimize impacts on any such resources discovered during construction. If TCRs are identified in the APE before or during construction, the following performance standards would be met before any further construction and associated activities that may result in damage to or destruction of TCRs:

- Each identified TCR would be evaluated for CRHR eligibility through application of established eligibility criteria (14 CCR 15064.636), in consultation with interested Native American Tribes.
- If a TCR is determined to be eligible for listing in the CRHR, USACE, in consultation with the CVFPB, would avoid damaging the Tribal Cultural Resource in accordance with PRC Section 21084.3, if feasible. If the CVFPB determines that the project may cause a substantial adverse change to a TCR, and measures are not otherwise identified in the consultation process, the following are examples of mitigation steps or alternatives capable of avoiding or substantially lessening potential significant impacts on a TCR:
    i. Avoid and preserve resources in place, including, but not limited to, planning construction to avoid the resources and protect the cultural and natural context, or planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
    ii. Treat the resource with culturally appropriate dignity, taking into account the Tribal cultural values and meaning of the resource, including, but not limited to, the following:
        a. Protect the cultural character and integrity of the resource.
        b. Protect the traditional use of the resource.
        c. Protect the confidentiality of the resource.
        d. Establish permanent conservation easements or other interests in real estate, with culturally appropriate management criteria for the purposes of preserving or using the resources or places.
        e. Protect the resource.

Mitigation Measure CR-6: Implement Procedures for Discovery of Human Remains. The roles and responsibilities of USACE during the response to the discovery of human remains are outlined in the HPMP. To minimize adverse effects from encountering human remains during construction, the Project Partners would implement the following measures:

- In accordance with the California Health and Safety Code, if human remains are uncovered during ground-disturbing activities, the CVFPB would consult

with USACE, and USACE would immediately halt potentially damaging excavation in the area of the burial and notify the Sacramento County Coroner and a professional archaeologist to determine the nature of the remains. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (California Health and Safety Code Section 7050.5[b]). If the coroner determines that the remains are those of a Native American, he or she must contact the NAHC by phone within 24 hours of making that determination (California Health and Safety Code Section 7050.5[c]). After the coroner's findings have been made, the archaeologist and the NAHC-designated MLD, in consultation with the landowner, would determine the ultimate treatment and disposition of the remains.

- Upon the discovery of Native American human remains, USACE, in coordination with the CVFPB, would require that all construction work must stop within 100 feet of the discovery until consultation with the MLD has taken place. The CVFPB would lead consultation with the MLD, in coordination with USACE. The MLD would have 48 hours to complete a site inspection and make recommendations to the landowner after being granted access to the site. A range of possible treatments for the remains, including nondestructive removal and analysis, preservation in place, relinquishment of the remains and associated items to the descendants, or other culturally appropriate treatment may be discussed. PRC Section 5097.98(b)(2) suggests that the concerned parties may mutually agree to extend discussions beyond the initial 48 hours to allow for the discovery of additional remains. The following is a list of site protection measures that the CVFPB would employ:
    - Record the site with the NAHC or the appropriate Information Center.
    - Record a document with the county in which the property is located.
    - Rebury the Native American human remains and associated grave goods with appropriate dignity on the property in a location not subject to further subsurface disturbance. Reburial of the remains would be completed by the CVFPB or its authorized representative. If the NAHC is unable to identify an MLD, or if the MLD fails to make a recommendation within 48 hours after being granted access to the site, the CVFPB or its authorized representative may reinter the remains in a location not subject to further disturbance. If the CVFPB rejects the recommendation of the MLD and mediation by the NAHC fails to provide measures acceptable to the CVFPB, the CVFPB would implement mitigation to protect the burial remains. Construction work in the vicinity of the burials would not resume until the mitigation is completed.

Summary

The ARCF GRR FEIS/FEIR concluded that mitigation measures would reduce potential impacts of the project on cultural resources to a less-than-significant level as any adverse

effects would be resolved by implementing requirements contained in the PA. The ARCF GRR FEIS/FEIR also concluded that under CEQA the impacts of project construction on historic and unique archaeological resources would be significant and unavoidable. With implementation of new Mitigation Measures CR-1, CR-2, CR-3, CR-4, CR-5, and CR-6, the Proposed Action would have a less-than-significant impact with mitigation under CEQA.

3.8 Transportation and Circulation

3.8.1 Environmental Setting

3.8.1.1 Regulatory Setting

Section 3.10 (page 219) of the ARCF GRR FEIS/FEIR identified Federal, State, and local regulations that apply to transportation and circulation. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations and described the status of compliance with those laws and regulations. There are no additional laws or regulations applicable to transportation and circulation that have gone into effect since certification of the ARCF GRR FEIS/FEIR.

3.8.1.2 Existing Conditions

Section 3.10 of the ARCF GRR FEIS/FEIR (pages 220 through 224) describes the regional and local setting for the ARCF GRR Project, including the setting for the Proposed Action and vicinity. The following provides additional information specific to the Project Area.

The Project Area would be accessed from the State highway system from U.S. 50 and Business 80/Capital City Freeway. The nearest highway interchanges to the Project Area include the following:

- U.S. 50 and Howe Avenue
- Business 80/Capital City Freeway and Exposition Boulevard

In addition to the major arterial roadways used to access the Project Area described in the ARCF GRR FEIS/FEIR, including Howe Avenue, Arden Way, and Fair Oaks Boulevard, construction of the facilities planned under the Proposed Action would also require use of Exposition Boulevard, Ethan Way, and Hurley Way for construction traffic.

In addition, the Proposed Action would require use of minor arterial and collector roadways. In East Sacramento, H and J Streets would provide access to and from Site 1-1 from Howe Avenue.

3.8.1.3 Methodology

This analysis generally uses the same methodology described in Section 3.10.2 (page 224) of the ARCF GRR FEIS/FEIR. The methodology anticipated that the levee

improvements along the American River, including the Project Area, would generate intermittent substantial volumes of construction traffic, due to earthwork and delivery of materials. Operation of the Proposed Action would generate traffic volumes for maintenance activity that would be similar to traffic volumes for maintenance generated under existing conditions.

3.8.1.4 Basis of Significance

This analysis uses the same basis of significance described in Section 3.10.2 (page 224) of the ARCF GRR FEIS/FEIR, as stated below.

The Proposed Action would result in a significant effect related to transportation and circulation if it would:

- Substantially increase traffic in relation to existing traffic load and capacity of the roadway system;
- Substantially disrupt the flow of traffic;
- Expose people to significant public safety hazards resulting from construction activities on or near the public road system;
- Reduce the supply of parking spaces sufficiently to increase demand above supply;
- Cause substantial deterioration of the physical condition of nearby roadways;
- Result in inadequate emergency access; or
- Disrupt railroad services for a significant amount of time.

Since publication of the ARCF GRR FEIS/FEIR, changes to Appendix G of the State CEQA Guidelines were adopted. As a result, this analysis also takes into consideration the following modified significance criteria:

- Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.
- Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b).
- Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).

3.8.2 Impact Analysis

3.8.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the present level of risk of flooding due to levee failure from seepage, slope stability, overtopping, or other erosion concerns.

Under these conditions, a flood event could cause portions of the levees to fail, possibly triggering widespread flooding and related damage. If a catastrophic flood were to occur, emergency flood fighting and clean-up efforts would be initiated, probably requiring mobilization of a large number of emergency vehicles and construction equipment. In addition, under the No Action/No Project alternative, if a flood event were to occur, roadways and railroads could be inundated with floodwaters, causing disruptions in traffic and deterioration of roadway conditions. These effects on transportation would be considered significant; however, the timing, duration, and magnitude of a flood event is unpredictable and precise significance determination cannot be made.

3.8.2.2 Proposed Action

Traffic Load and Capacity

Section 3.10 (pages 224 through 229) of the ARCF GRR FEIS/FEIR analyzed the impacts on transportation and circulation associated with construction of levee improvements throughout the Sacramento area, including the Project Area that encompasses Site 1-1. The ARCF GRR FEIS/FEIR described that implementation of the proposed levee improvements would require moving construction equipment and materials along highways and local roads such as Howe Avenue, Arden Way, and Fair Oaks Boulevard, as well as local minor arterial streets to access the construction sites. The ARCF GRR FEIS/FEIR transportation and circulation impact analysis identified that construction of proposed levee improvements and related mitigation activities would intermittently generate substantial volumes of traffic due to the earthwork involved and the need for materials deliveries and would result in significant temporary and short-term impacts.

In addition, construction of levee improvements and related mitigation activities in performance of the Proposed Action would require trucks to enter the American River Parkway and Sutter's Landing Regional Park, and the increased traffic in the Parkway, Sutter's Landing Regional Park, and Glenn Hall Park would result in significant temporary impacts to recreational users, bicycle commuters, commuters, and residents adjacent to the levee structure. Construction-related traffic on residential roads to access the Parkway would result in significant temporary and short-term impacts to residents along the selected routes. The following discussion provides additional details on transportation and circulation effects of the Proposed Action that were not available when the ARCF GRR FEIS/FEIR was prepared.

Site Preparation and Mobilization

Site preparation would begin with trimming and/or removal of trees where construction access and activities would occur. After these activities, mobilization would include the application of temporary best management practices for the control of off-site stormwater runoff and sedimentation, building temporary access roads and ramps, preparing staging areas, and installing signage for traffic and alternate transportation routes that would be affected by construction activities (e.g., bicycle routes). Vegetation clearing could be needed to allow for site access and to accommodate construction activities.

As described in Chapter 2, *Alternatives*, construction activities would coincide with planned improvements by the California Department of Transportation (Caltrans) and the City of Sacramento. Coordination with Caltrans and the City is currently underway to prevent conflicts during site preparation and construction activities.

Site Access and Haul Routes

As depicted on Figure 2-12 in Chapter 2, *Alternatives*, haul routes for riprap, bedding, gravel, soil, and IWM would be from either I-80 or from U.S. 50. The neighborhoods along the routes would be notified of haul routes, ingress and egress points, staging areas, detours, lane closures (if any), and closed recreational areas (including bike paths) approximately one week prior to commencement of construction activities. Signage would be installed at all ingress and egress locations approximately one week prior to construction to alert the public of construction activities and potential restrictions on access during construction activities. Coordination with the UPRR would occur well before construction starts to ensure railroad safety measures are in place.

As depicted on Figure 2-12, haul trucks would travel to the staging areas using the main ingress points at either the Sutter's Landing Regional Park entrance located off of 28th Street or at Glenn Hall Park located off of Carlson Drive. Haul trucks would travel along the top of the levee crossing the paved bicycle path adjacent to the 28th and B Street Skate Park. Bicycle traffic within Sutter's Landing Regional Park would be controlled by a dedicated flagger during construction to prevent collisions from occurring. All other areas along the levee east of Sutter's Landing Regional Park to Glenn Hall Park would be closed to pedestrian and bicycle traffic for safety reasons. All traffic passing over the UPRR at-grade crossing would require a dedicated flagger and other railroad safety measures during construction. Haul trucks would enter either main ingress points and use either the downstream or upstream temporary construction access ramps to deliver their loads on the waterside of the levee along Site 1-1 and then continue along the top of the levee to exit at either Glenn Hall Park or at Sutter's Landing Regional Park. Haul trucks would travel either north or south along Howe Avenue to either I-80 or to U.S. 50. Some smaller pickup trucks or equipment may enter from either Glenn Hall Park or at Sutter's Landing Regional Park to access Site 1-1. In addition, the haul routes shown on Figure 2-12 could be used in both directions if traffic or road closures occur for unforeseen reasons (e.g., emergencies, road construction, etc.) during the construction period.

Anticipated Construction Traffic Volumes and Distribution

Construction traffic associated with the Proposed Action would result from the transport of construction personnel, materials, and equipment to and from the Project Area. Most construction traffic volumes would be associated with the delivery of material and supplies to staging areas and Site 1-1, and export of fill to off-site locations. **Table 3-10** provides a summary of haul trips, as they would be anticipated to occur throughout the primary construction phases. The Proposed Action would result in approximately 15,790 truck trips, based on the anticipated size of haul vehicles. Haul trips would begin in approximately May 2023 and continue through approximately November 2023. The anticipated peak haul trips per hour would take place from May 2023 through October 2023 during the

TABLE 3-10
ANTICIPATED CONSTRUCTION TRAFFIC VOLUMES

Schedule	Materials	Total Imported Materials (cy or trees)	Total Haul Trips	Return/Unloaded Trips	Total Truck Trips	Scheduled Delivery Days	Trips/Day	Trips/Hr
May 2023 through October 2023	Excavated Soil	3,500 cy	360	360	720	12	60	5.5
	Bedding Material	7,520 cy	750	750	1500	12	125	11.4
	Riprap	23,400 cy	2,700	2,700	5,400	34	159	14.4
	Soil-filled Riprap	10,000 cy	1,500	1,500	3,000	14	214	19.5
	Planting Bench Soil	21,000 cy	2,090	2,090	4,180	26	161	14.6
November 2023	Aggregate Base	4,100 cy	455	455	910	9	101	9.2
	IWM	160 trees	40	40	80	20	4	0.4
		Total	7,895	7,895	15,790	Peak Trips	214	19

NOTES:
1 CY: Cubic Yards
2 Truck Volume
- Excavated Soil 9.72 cy
- Bedding Material 10.03 cy
- Riprap 8.67 cy
- Soil-filled Riprap 6.67 cy
- Planting Bench Soil 10.05 cy
- Aggregate Base 9.01 cy
- IWM 4 trees

3 Construction Day (Hours) 11

Source: USACE, 2022; ESA, 2021.

primary construction phase. Haul trips would be anticipated to take place intermittently throughout each project phase, with the number of delivery days for each type of material to occur as shown in Table 3-10, as the number of active construction days is greater than the number of delivery days required for each material quantity. On days in which deliveries would be anticipated to take place and based on an assumption of evenly distributed truck trips across an 11-hour workday, the construction phase of the Proposed Action could be anticipated to have a peak of approximately 19 truck trips per hour along the proposed haul routes during the primary construction phase from May 2023 through October 2023. This would be a significant and unavoidable impact.

Safety Hazards

Construction of levee improvements at Site 1-1 would require trucks to enter the Sutter's Landing Regional Park and the Parkway. The increased traffic in these recreational areas would result in significant temporary and short-term impacts on recreational users, bicycle commuters, and pedestrians. Without appropriate safeguards, implementation of the Proposed Action could expose people to significant public safety hazards resulting from construction activities on or near the public road system and within the Parkway.

While the transportation and circulation analysis in the ARCF GRR FEIS/FEIR did not specifically evaluate public safety hazards resulting from construction activities on or near the public road system, this topic was addressed in the ARCF GRR FEIS/FEIR by Mitigation Measure TR-1: Prepare and Implement a Traffic Control and Road Maintenance Plan, which is incorporated into the Proposed Action. The mitigation measure includes the requirement that safe pedestrian and bicyclist access be maintained around the construction areas at all times, the requirement that construction areas would be secured as required by the applicable jurisdiction to prevent pedestrians and bicyclists from entering the work site, and the requirement that all stationary equipment would be located as far away as possible from areas where bicyclists and pedestrians are present. Implementation of Mitigation Measure TR-1 identified in the ARCF GRR FEIS/FEIR and previously adopted and incorporated into the Proposed Action and new Mitigation Measure TR-2 would ensure that public safety hazards resulting from construction activities on or near the public road system would be reduced to less than significant.

Parking Demand

The ARCF GRR FEIS/FEIR determined that the increase in vehicle traffic within the project area that would by caused by the Proposed Action would not result in a reduction of public parking availability, because construction vehicles would be required to park in designated staging areas, as specified in the mitigation measure provided below.

Mitigation measures identified in the ARCF GRR FEIS/FEIR are incorporated into the Proposed Action, including the requirement that the construction contractor provide adequate parking for construction trucks, equipment, and construction workers within designated staging areas throughout the construction period. If inadequate space for parking is available at a given work site, the construction contractor would be required to provide an off-site staging area and as needed, coordinate the daily transport of

construction vehicles, equipment, and personnel to and from the work site. Several designated staging areas would include parking spaces at Sutter's Landing Regional Park at the request of the City of Sacramento. Use of the parking spaces would be temporary and would not impede or otherwise prevent users of the Sutter's Landing Regional Park from finding parking within the park or available neighboring street parking. Implementation of mitigation measures identified in the ARCF GRR FEIS/FEIR and incorporated into the Proposed Action would ensure that impacts related to the supply of parking spaces adjacent to project sites would be less than significant.

Deterioration of Roadways

The ARCF GRR FEIS/FEIR determined that construction of the levee improvements would result in a substantial increase in traffic on local roadways associated with truck haul trips during construction activities, and the haul trucks could cause additional damage or deterioration to roadway conditions.

Without appropriate safeguards, implementation of the Proposed Action, which would deploy substantial numbers of heavy-duty trucks hauling heavy loads of soil, rock, and other materials, could cause substantial deterioration of the physical condition of nearby roadways, including potholes, fractures, or other damages. Mitigation measures identified in the ARCF GRR FEIS/FEIR are incorporated into the Proposed Action, including the requirement that the construction contractor assess damage to roadways caused by the transit of project vehicles and equipment and repair all potholes, fractures, or other damages. Implementation of mitigation measures identified in the ARCF GRR FEIS/FEIR and incorporated into the Proposed Action (see below) would ensure that impacts related to substantial deterioration of the physical condition of nearby roadways would be less that significant.

Inadequate Emergency Access

The ARCF GRR FEIS/FEIR determined that construction of the levee improvements would result in a substantial increase in traffic on local roadways associated with truck haul trips during construction activities. The ARCF GRR FEIS/FEIR determined that traffic controls associated with truck haul trips during construction activities would cause or contribute to substantial temporary increases in traffic levels on several roadways, as traffic is detoured, slowed, or disrupted by lane closures. Traffic controls could cause delays during the morning and evening peak commute hours, which could disrupt emergency response times in the vicinity of the construction sites. Implementation of mitigation measures identified in the ARCF GRR FEIS/FEIR and incorporated into the Proposed Action would ensure that impacts related to inadequate emergency access would be less than significant.

Conflict or Inconsistency with State CEQA Guidelines Section 15064.3

State CEQA Guidelines Section 15064.3(b) was adopted in December 2018 by the California Natural Resources Agency and took effect on July 1, 2020. Amendments to the CEQA Guidelines Appendix G, Section XVII were also adopted. These revisions to

the State CEQA Guidelines criteria for determining the significance of transportation impacts shift the focus from vehicle delay to reduction of greenhouse gas emissions, creation of multimodal networks, and promotion of a mix of land uses for projects that are not roadway capacity projects. Vehicle miles traveled (VMT) is a measure of the total number of miles driven to or from a destination, such as work and home, and is sometimes expressed as an average per trip or per person.

CEQA Guidelines Section 15064.3(a) states, "For the purposes of this section, 'vehicle miles traveled' refers to the amount and distance of automobile travel attributable to a project," where, in accordance to guidance provided by the California Office of Planning and Research,[82] automobiles refer to on-road passenger vehicles, specifically cars and light trucks. Consequently, truck haul trips associated with construction for the Proposed Action are not factored into the assessment of project VMT, and the focus of this analysis is on passenger vehicle (i.e., cars and light trucks) trips generated by the Proposed Action. However, this Draft EIR also includes an analysis of emissions associated with truck traffic generated by the Proposed Action (as well as commuter trips; see Section 3.9, *Air Quality* Section 3.10, *Greenhouse Gas Emissions and Energy Consumption*)

While the Proposed Action would result in temporary construction-related vehicle trips (i.e., cars and light trucks) associated with workers traveling to and from construction sites, these additional trips would not be expected to result in a long-term change in travel behavior or a long-term increase in VMT. In addition, the Proposed Action would not develop any uses (e.g., residential, commercial, industrial) that would result in a long-term change in travel behavior or a long-term increase in VMT. Operations and maintenance trips associated with improvements implemented under the Proposed Action would not be anticipated to materially increase over existing trips. Consequently, the Proposed Action would not result in a long-term increase in VMT or result in conflicts or inconsistency with State CEQA Guidelines Section 15064.3, and the Proposed Action would result in a less-than-significant impact.

Conflict with a Program, Plan, or Ordinance: Decreased Performance or Safety of Alternative Modes of Transportation

Construction of the Proposed Action would have an impact on bicycle and pedestrian routes along the American River Parkway. As described in Chapter 2, *Alternatives*, construction of levee improvements at Site 1-1 would require trucks to enter the Parkway and Sutter's Landing Regional Park. The increased traffic in these recreational areas would result in significant temporary and short-term impacts on recreational users, bicycle commuters, and pedestrians. Construction activities would result in the temporary closure of bicycle/pedestrian pathways, requiring commuters and recreational users to seek alternative routes within the Parkway and Sutter's Landing Regional Park or in adjacent neighborhoods. While temporary, these impacts would have the potential to reduce safe access for bicycle and pedestrian users, which would conflict with the County

[82] California Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.

of Sacramento's policy regarding pedestrian pathways along the Parkway or Sutter's Landing Regional Park. However, implementation of the previously adopted mitigation measures described below would reduce impacts to less than significant.

ARCF GRR FEIS/FEIR Mitigation Measures

The following ARCF GRR FEIS/FEIR mitigation measure found in Section 3.10 (pages 228-229) is incorporated into the Proposed Action:

> **Mitigation Measure TR-1: Prepare and Implement a Traffic Control and Road Maintenance Plan.** Before the start of project-related construction activities, USACE in coordination with CVFPB would require the contractor to prepare a Traffic Control and Road Maintenance Plan. The items listed below would be included in the plan and as terms of the construction contracts:
>
> - The contractor would be required to prepare a Traffic Control and Road Maintenance Plan. A traffic control plan describes the methods of traffic control to be used during construction. All on-street construction traffic would be required to comply with the City of Sacramento's standard construction specifications as detailed in City Code 12.20.030 to the satisfaction of the City Traffic Engineer. The plan would reduce the effects of construction on the roadway system in the Project Area throughout the construction period.
> - Construction contractors would follow the standard construction specifications of affected jurisdictions, including UPRR, and obtain the appropriate encroachment permits, if required. The conditions of the encroachment permit would be incorporated into the construction contract and would be enforced by the agency that issues the encroachment permit.
> - Proposed lane closures would be coordinated with the appropriate jurisdiction and would be minimized to the extent possible during the morning and evening peak traffic periods.
> - Standard construction specifications also typically limit lane closures during commuting hours. Lane closures would be kept as short as possible. If a road must be closed, detour routes and/or temporary roads would be made to accommodate traffic flows. Detour signs would be provided to direct traffic through detours. Advance notice signs of upcoming construction activities would be posted at least 1 week in advance so that motorists are able to avoid traveling through the study area during these times. Within the Parkway, detours would be used to allow for continued use by bicycle commuters.
> - Safe pedestrian and bicyclist access would be maintained around the construction areas at all times. Construction areas would be secured as required by the applicable jurisdiction to prevent pedestrians and bicyclists from entering the work site, and all stationary equipment would be located as far away as possible from areas where bicyclists and pedestrians are present.
> - The construction contractor would provide adequate parking for construction trucks, equipment, and construction workers within the designated staging

areas throughout the construction period. If inadequate space for parking is available at a given work site, the construction contractor would provide an off-site staging area and, as needed, coordinate the daily transport of construction vehicles, equipment, and personnel to and from the work site.

- The construction contractor would assess damage to roadways used during construction and the UPRR at-grade railroad crossing and would repair all potholes, fractures, or other damages.
- The construction contractor would notify and consult with emergency service providers at least 14 days prior to commencement of construction that would partially or fully obstruct roadways to ensure that alternative emergency access routes are established to facilitate the passage of emergency vehicles on city streets.
- Emergency vehicle access would be made available at all times. The contractor would be required to coordinate with local emergency responders to inform them of the construction activities.

Summary

Implementation of the Proposed Action would generate temporary but substantial volumes of traffic on local roadways and highways, primarily numerous daily transits by haul trucks carrying material to and from project site. Mitigation measures identified in the 2016 ARCF GRR FEIS/FEIR are incorporated into the Proposed Action and would reduce the magnitude of impacts, but temporary traffic increases during project construction would remain significant and unavoidable. Construction of the Proposed Action would not cause new or more severe traffic impacts than those addressed in the ARCF GRR FEIS/FEIR

Implementation of the proposed new mitigation measure, not included in the ARCF GRR FEIS/FEIR, below would reduce anticipated impacts on the safety of alternative modes of transportation (e.g., bicycles and pedestrians) to a less-than-significant level.

Additional Mitigation Measure

Implementation of the following mitigation measure would reduce the impact on bicycle and pedestrian access to a less-than-significant level. To maintain safe usage of pedestrian and bicycle facilities that would intersect construction traffic, signal personnel would be in place to control construction vehicle, pedestrian, and bicycle traffic at those locations.

Mitigation Measure TR-2: Provide Bicycle and Pedestrian Access. The contractor would prepare a Traffic Control and Road Maintenance Plan that would include, but not be limited to, the following provisions related to bicycle and pedestrian access:

- Provide signs along affected pedestrian and bicycle pathways announcing scheduled closures and recommended detour routes.
- Place signal personnel at intersections of construction vehicle pathways and active bicycle and pedestrian facilities.

3.9 Air Quality

3.9.1 Environmental Setting

3.9.1.1 Regulatory Setting

Section 3.11 (page 229) of the ARCF GRR FEIS/FEIR identified the Federal Clean Air Act (CAA) and the California Clean Air Act (CCAA) that apply to regulating air quality emissions. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations that apply to the Proposed Action and described the status of compliance with those laws and regulations. Additional and updated applicable laws and regulations related to air quality are summarized below.

Federal

Criteria Air Pollutants

The CAA requires the U.S. Environmental Protection Agency (EPA) to set minimum emissions standards for a range of pollution sources. Specifically, EPA and the National Highway Traffic Safety Administration (NHTSA) regulate emissions from on-road vehicles include automobiles and light-duty trucks. In 2012, EPA and NHSTA established the Corporate Average Fuel Economy (CAFE) standards for automobiles and light-duty trucks for model years 2014 and beyond (77 *Federal Register* [FR] 62624). Under the original iteration of the CAFE standards, fuel economy would be raised to the equivalent of 54.6 miles per gallon by 2025 (77 FR 62630).

On August 2, 2018, the NHSTA and EPA proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule) (49 Code of Federal Regulations (CFR) 523, 531, 533, 536, and 537 and 40 CFR 85 and 86). This rule addresses emissions and fuel economy standards for motor vehicles and is separated in two parts as described below.

Part One, "One National Program" (84 *Federal Register* [FR] 51310), revokes a waiver granted by EPA to the State of California under Section 209 of the CAA to enforce more stringent emission standards for motor vehicles than those required by EPA for the explicit purpose of reducing greenhouse gas (GHG) and, indirectly, criteria air pollutants and ozone precursor emissions. This revocation became effective on November 26, 2019, restricting the ability of the California Air Resources Board (CARB) to enforce more stringent GHG emission standards for new vehicles and set zero-emission-vehicle mandates in California.[83] However, on April 26, 2021, EPA announced plans to reconsider Part One of the SAFE Rule as directed in Executive Order 13990, "Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis." At this time, EPA is seeking public input on its reconsideration of the action. However, on April 26, 2021, EPA announced plans to reconsider Part One of the SAFE Rule as directed in Executive Order 13990, "Protecting Public Health and the Environment and Restoring Science to

[83] National Highway Traffic Safety Administration. 2019. The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One Nation Program. 49 CFR Parts 531 and 533. Available: https://www.govinfo.gov/content/pkg/FR-2019-09-27/pdf/2019-20672.pdf. Accessed December 22, 2021.

Tackle the Climate Crisis" (discussed below). Public comments to the Notice of Reconsideration ended on June 6, 2021, and EPA held a public hearing on June 22, 2021.[84]

Part Two addresses CAFE standards for passenger cars and light trucks for model years 2021–2026. This rulemaking proposes new CAFE standards for model years 2022–2026 and would amend existing CAFE standards for model year 2021. The proposal would retain the model year 2020 standards (specifically, the footprint target curves for passenger cars and light trucks) through model year 2026, but comment is sought on a range of alternatives discussed throughout the proposed rule. This proposal addressing CAFE standards is being jointly developed with EPA, which is simultaneously proposing tailpipe carbon dioxide standards for the same vehicles covered by the same model years. The final SAFE Rule Part Two was released on March 31, 2020, and multiple lawsuits have been filed challenging the rulemaking.

Toxic Air Contaminants

TACs, or in federal parlance, HAPs, are a defined set of airborne pollutants that may pose a present or potential hazard to human health. A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations.

For evaluation purposes, TACs are separated into carcinogens and non-carcinogens based on the nature of the physiological effects associated with exposure to the pollutant. Carcinogens are assumed to have no safe threshold below which health impacts would not occur. This contrasts with criteria air pollutants for which acceptable levels of exposure can be determined and for which the ambient standards have been established. Cancer risk from TACs is expressed as excess cancer cases per one million exposed individuals, typically over a lifetime of exposure.

State

In December 2018, the California Supreme Court issued its decision in *Sierra Club v. County of Fresno* (226 Cal.App.4th 704), (herein referred to as the Friant Ranch decision). The case reviewed the long-term, regional air quality analysis contained in the EIR for the proposed Friant Ranch development. The Court ruled that the air quality analysis failed to adequately disclose the nature and magnitude of long-term air quality health impacts from emissions of criteria air pollutants and precursors "in sufficient detail to enable those who did not participate in its preparation to understand and consider meaningfully the issues the proposed project raises." The Court noted that the air quality analysis did not discuss the foreseeable adverse health effects of project-generated emissions on Fresno County's likelihood of exceeding the NAAQS and CAAQS for criteria air pollutants, nor did it explain why it was not "scientifically possible" to determine such a connection. The Court

84 National Highway Traffic Safety Administration. 2019. The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One Nation Program. 49 CFR Parts 531 and 533. Available: https://www.govinfo.gov/content/pkg/FR-2019-09-27/pdf/2019-20672.pdf. Accessed December 22, 2021.

concluded that "because the EIR as written makes it impossible for the public to translate the bare numbers provided into adverse health impacts or to understand why such translation is not possible," the EIR's discussion of air quality impacts was inadequate. As a result, EIR analyses must make a reasonable effort to substantively connect the project's air quality impacts to likely health consequences and that an EIR should relate the expected adverse air quality impacts to likely health consequences or explain in meaningful detail why it is not feasible to do so. In California, CARB is the agency responsible for coordination and oversight of state and local air pollution control programs and for implementing the CCAA and demonstrating compliance with the NAAQS. California law authorizes CARB to set ambient (outdoor) air pollution standards (California Health and Safety Code Section 39606) for criteria air pollutants in consideration of public health, safety, and welfare. CARB has established CAAQS for criteria air pollutants of ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), respirable particulate matter with an aerodynamic diameter of 10 micrometers or less (PM_{10}), fine particulate matter with an aerodynamic diameter of 2.5 micrometers or less ($PM_{2.5}$), and lead, as well as sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particulate matter. The standards are generally explained by the health effects studies considered during the standard-setting process and the interpretation of the studies. In addition, the CAAQS incorporate a margin of safety to protect sensitive individuals.

Local

Sacramento Metropolitan Air Quality Management District

Criteria Air Pollutants

The Sacramento Metropolitan Air Quality Management District (SMAQMD) is the primary agency responsible for planning to meet NAAQS and CAAQS in Sacramento County. SMAQMD works with other local air districts in the Sacramento region to maintain the region's portion of the State Implementation Plan (SIP) for ozone. The SIP is a compilation of plans and regulations that govern how the region and state will comply with the CCA requirements to attain and maintain the NAAQS for ozone. The Sacramento Region has been designated as a "moderate" nonattainment area for the 2015 8-hour ozone standard.[85]

SMAQMD has developed a set of guidelines for use by lead agencies when preparing environmental documents. The guidelines contain thresholds of significance for criteria air pollutants and toxic air contaminants (TACs) and make recommendations for conducting air quality analyses. Thresholds of significance adopted by SMAQMD are designed on a cumulative basis, considering regional growth and anticipated development, such that projects that do not exceed the adopted thresholds would not impede the region from achieving the CAAQS and ultimately the NAAQS. Further, because the ambient air quality standards are designed to protect public health, projects that do not exceed SMAQMD-adopted thresholds, or are reduced to below the thresholds

[85] U.S. Environmental Protection Agency. 2021. Greenbook 8-Hour Ozone (2015) Designated Area (State/Area/County Report). Last updated November 30, 2021. Available: https://www3.epa.gov/airquality/greenbook/jbcs.html#CA. Accessed December 22, 2021.

with applied mitigation, would be considered to have a less-than-significant impact under CEQA, would not contribute to exceedance of a CAAQS or NAAQS, and would not result in adverse health effects.

After SMAQMD guidelines have been consulted and the air quality impacts of a project have been assessed, the lead agency's analysis undergoes a review by SMAQMD. SMAQMD submits comments and suggestions to the lead agency for incorporation into the environmental document.

All projects in the Sacramento area are subject to SMAQMD rules and regulations in effect at the time of construction. Specific rules applicable to the construction of the Proposed Action may include but are not limited to the following:

- **Rule 201:** General Permit Requirements. Any project that includes the use of equipment capable of releasing emissions to the atmosphere may be required to obtain permit(s) from SMAQMD before equipment operation. Portable construction equipment (e.g., generators, compressors, pile drivers, lighting equipment) with an internal combustion engine greater than 50 horsepower must have a SMAQMD permit or CARB portable equipment registration.

- **Rule 402:** Nuisance. A person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause or have natural tendency to cause injury or damage to business or property.

- **Rule 403:** Fugitive Dust. The developer or contractor is required to control dust emissions from earthmoving activities or any other construction activity to prevent airborne dust from leaving the Project Area.

In addition, if modeled construction-generated emissions for a project are not reduced to less than SMAQMD's mass emission threshold (i.e., 85 pounds per day [lb/day]) after the standard construction mitigation is applied, then SMAQMD recommends charging an off-site construction mitigation fee. The fee must be paid before a grading permit can be issued. This fee is charged by SMAQMD to fund emission reduction programs. One example is SMAQMD's Heavy Duty Incentive Program, through which select owners of heavy-duty equipment in Sacramento County can repower or retrofit their old engines with cleaner engines or technologies.

Toxic Air Contaminants

At the local level, air districts may adopt and enforce CARB control measures. Under SMAQMD Rule 201 ("General Permit Requirements"), construction equipment that possess the potential to emit TACs must be permitted by SMAQMD. Permits may be granted if a project is constructed and operated in accordance with applicable regulations, including air toxics control measures. SMAQMD limits emissions and public exposure to TACs through several programs. SMAQMD prioritizes TAC-emitting stationary sources

based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors. Sensitive receptors are people, or facilities that generally house people (e.g., schools, hospitals, residences), that may experience adverse effects from unhealthful concentrations of air pollutants.

In September 2020, SMAQMD released the most recent version of the Mobile Source Air Toxics Protocol (MSAT Protocol). The MSAT Protocol provides guidance to local land use jurisdictions on assessing and disclosing potential cancer risk and $PM_{2.5}$ concentrations from major roadways and railways throughout Sacramento County. The MSAT Protocol replaces the *Recommended Protocol for the Evaluation of Sensitive Receptors Adjacent to Major Roadways*.[86]

Odors

Although offensive odors rarely cause any physical harm, they can be unpleasant, leading to considerable stress among the public and often generating citizen complaints to local governments and SMAQMD. SMAQMD's Rule 402 ("Nuisance") regulates odors.

Health Effects

In October 2020 SMAQMD issued Guidance to Address the Friant Ranch decision for CEQA Projects in SMAQMD's jurisdiction.[87] In that decision, the California Supreme Court held that an EIR should "relate the expected adverse air quality impacts to likely health consequences or explain in meaningful detail why it is not feasible at the time of drafting to provide such an analysis." The Final Guidance contains two screening tools, one for a "Minor Project" and another for "Strategic Area Projects." Strategic Area Projects are projects that generate emissions two to eight times greater than the maximum thresholds of significance (derived from identifying the greatest thresholds from air districts operating within the SVAB). Minor Projects are projects that generate emissions below the maximum thresholds of significance. Given its size and estimated level of emissions, the Proposed Action is considered a Strategic Area Project and was grouped into the Strategic Area Project III, "Downtown Sacramento," designation due to the Proposed Action's location.

3.9.1.2 Existing Conditions

Section 3.11 (pages 230 through 235) of the ARCF GRR FEIS/FEIR adequately describes the regional and local setting of the Project Area.

86 Sacramento Metropolitan Air Quality Management District. 2020 (September) Mobile Source Air Toxics Protocol Guidance Document. Available: http://www.airquality.org/LandUseTransportation/Documents/Final MSATProtocolGuidancev1.3Sept2020.pdf. Accessed December 22, 2021.

87 Sacramento Metropolitan Air Quality Management District. 2020 (October). Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District. Available: http://www.airquality.org/LandUse Transportation/Documents/SMAQMDFriantRanchFinalOct2020.pdf. Accessed December 22, 2021.

3.9.2 Methodology and Basis of Significance

3.9.2.1 Methodology

This analysis generally uses the same methodology described in Section 3.11 (page 236) of the ARCF GRR FEIS/FEIR. Project-specific material quantities, haul routes, daily equipment use/types, and construction worker information have been added and are the basis for this analysis. The types of construction activities that would generate emissions of air pollutants include clearing of trees, vegetation, and loose materials; degrading and excavating the levee; installation of rock revetment; construction of a launchable-rock-filled trench; reconstruction of the levee; associated worker haul and commute trips; and construction of mitigation sites. Refer to **Appendix D** for all inputs, assumptions, and modeling results. Where significant air quality impacts are identified, mitigation measures to reduce these impacts are specified.

Construction would take place over a 1.5-year period. Based on available construction sequencing assumptions, site preparation would begin in November 2022 and last through the Summer of 2024. This would entail the removal and/or trimming of trees where access and construction activities would occur. Mobilization of construction equipment, site preparation, and construction would begin as early of May 2023 and would take approximately 7 months to complete, with another 6 months of post-construction work (e.g., plantings, irrigation, stormwater control monitoring). Post-construction work would be similar to existing maintenance activities; thus, emissions were not quantified. Maximum emissions associated with the Proposed Action would occur during the primary earthwork, during the second year of construction, modeled in 2023.

Construction would begin Monday through Saturday at 7:00 a.m. and end by 6:00 p.m.; Sundays from 9:00 a.m. to 6:00 p.m. Based on the construction sequencing anticipated, maximum construction activity would occur from May 2023 to December 2023 when rock hauling, on-site earth movement, and bank protection work would be underway simultaneously. The air quality analysis prepared for the Proposed Action quantified a "worst case scenario" scenario that would occur during 2023 and daily emissions were compared to SMAQMD's thresholds of significance. A General Conformity Determination was also prepared, which quantified project emissions by calendar year and is included in **Appendix E**.

A variety of emissions modeling software and methods were used, consistent with SMAQMD guidance. The SMAQMD Roadway Construction Emissions Model Version 9.0 was used to obtain emission factors for heavy-duty construction equipment. Default off-road equipment emission factors, default horsepower, and load factors from the model were used, also consistent with defaults used in the California Emissions Estimator Model (CalEEMod) Version 2020.4.0.[88] Modeling incorporated the Proposed Action's commitment that heavy-duty construction equipment of 50 horsepower or

[88] California Air Pollution Control Officers Association. 2021 (May). CalEEMod Users Guide Version 2020.4.0. Available: http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/01_user-39-s-guide2020-4-0.pdf?sfvrsn=6. Accessed December 22, 2021.

greater would consist of, at a minimum, 90 percent EPA Tier 4 standards. No Tier 0 or uncontrolled equipment would be used as part of implementation without prior approval from the U.S. Army Corps of Engineers (USACE) and a proposed mitigation plan to reduce these emissions to a minimum of Tier 1 levels. Fugitive dust emissions of PM_{10} were calculated from aggregate storage piles, dump truck travel on unpaved roads, hauling travel on paved roads, worker commute trips, and bulldozing and grading using emissions factors derived from EPA's AP-42 emissions factors using site specific information where available. Fugitive dust emissions of $PM_{2.5}$ were calculated using a 0.1 ratio of $PM_{2.5}$ to PM_{10} from EPA's AP-42 emissions factors. Regarding hauling emissions, it was assumed that haul trucks to the construction site would consist of trucks with the capacity to haul 10 cubic yards (cy) of materials.

The SMAQMD's Guidance to Address the Friant Ranch Decision was used to evaluate health effects for the Proposed Action. Consistent with SMAQMD's Final Friant Ranch Guidance, the anticipated construction emissions of criteria air pollutants were used to estimate foreseeable adverse health outcomes using SMAQMD's Strategic Area Project Health Screening Tool. Strategic Area Project III, "Downtown Sacramento," was used because it is the closest to the Proposed Action. **Table 3-11**, below, summarizes the anticipated health effects in the region from the Project's unmitigated emissions across all populations in the Sacramento Region.

In addition to estimating mass emissions from criteria air pollutants, air dispersion modeling was conducted to estimate health risks from project construction. Emissions from TACs (i.e., diesel PM) was modeled using EPA's AERMOD and health risks were calculated using CARB's HARP 2. The health risk assessment (HRA) considered TAC emissions associated with the use of heavy-duty construction equipment at the Proposed Action's construction site and the potential health risk effects at the nearest sensitive receptors.

It was conservatively assumed that rock material could be hauled to the site from as far as 75 miles and instream woody material (IWM) from within a 100-mile radius. For the HRA, haul trucks with a capacity of 10 cy were assumed. As shown in Figure 2-11, there are two potential haul route scenarios, referred herein as Scenario 1 North and Scenario 2 South. Under Scenario 1 North, once haul trucks leave Site 1-1, they would travel north along Howe Avenue until they reach I-80. Under Scenario 2 South, once haul trucks leave Site 1-1, they would travel south along Howe Avenue until they reach U.S. 50. Because the specific route is unknown at this time, and due to the local nature of TAC health risk exposure, which is determined by local meteorological factors, mass emission rates, and proximity to receptors, the two scenarios were modeled separately for the HRA, assuming all anticipated hauling activity in each direction (north and south) for each hauling scenario. See Appendix E for modeling inputs and outputs.

In addition, note that if other, closer material sources were used, haul routes that could be used would result in shorter distances and associated lower emission levels, and therefore, the scenario modeled represents the highest potential diesel PM emissions, and associated risk levels.

TABLE 3-11
POTENTIAL ANNUAL INCREMENTAL HEALTH INCIDENCES FOR THE PROPOSED ACTION

Health Endpoint	Health Endpoint	Health Endpoint	Age Range	Incidences (Mean)	Percent of Background Incidences	Total Number of Health Incidences (per Year)
$PM_{2.5}$	Respiratory	Emergency Room Visits	0-99	2.0	0.011%	18,419
		Hospital Admissions, Asthma	0-64	0.13	0.0070%	1,846
		Hospital Admissions, All Respiratory	65-99	0.69	0.0035%	19,644
	Cardiovascular	Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65-99	0.36	0.0015%	24,037
		Acute Myocardial Infarction, Nonfatal	18-24	0.00018	0.0048%	4
		Acute Myocardial Infarction, Nonfatal	25-44	0.016	0.0051%	308
		Acute Myocardial Infarction, Nonfatal	45-54	0.035	0.0048%	741
		Acute Myocardial Infarction, Nonfatal	55-64	0.061	0.0049%	1,239
		Acute Myocardial Infarction, Nonfatal	65-99	0.23	0.0046%	5,052
	Mortality	Mortality, All Causes	30-99	5.1	0.011%	44,766
Ozone	Respiratory	Hospital Admissions, All Respiratory	65-99	0.12	0.00060%	19,644
		Emergency Room Visits, Asthma	0-17	0.64	0.011%	5,859
		Emergency Room Visits, Asthma	18-99	1.0	0.0083%	12,560
	Mortality	Mortality, Non-Accidental	0-99	0.079	0.00026%	30,386
		Total Incidences	***0-99***	10.46	0.0784%	***184,505***

NOTES:
$PM_{2.5}$ = fine particulate matter

SOURCE: Modeling conducted by Ascent Environmental in 2021.

3.9.2.2 Basis of Significance

This analysis uses the same basis of significance described in Section 3.11 (page 238) of the ARCF GRR FEIS/FEIR, as summarized below.

The Proposed Action would result in a significant effect related to air quality if it would:

- Conflict with, or obstruct implementation of, the applicable air quality plan;

- Violate any air quality standard or substantial contribution to existing or projected air quality violation;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a non-attainment area under NAAQS and CAAQS;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Create objectionable odors affecting a substantial number of people.

Since publication of the ARCF GRR FEIS/FEIR, changes to Appendix G of the State CEQA Guidelines were adopted. Specifically, Appendix G of the State CEQA Guidelines considers the direct, indirect, or cumulative effects of air pollutant emissions. In addition, Appendix G no longer includes the criterion of violation of any air quality standard or contribute substantially to an existing or projected air quality violation. As a result, this analysis also takes into consideration the following modified significance criterion:

- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

An air quality effect is considered significant if the Proposed Action's construction emissions would:

- Cause construction-generated criteria air pollutant or precursor emissions to exceed SMAQMD-recommended thresholds. The thresholds are as follows:
  - NOx: 85 lb/day,
  - PM_{10}: zero, or if all feasible control measures are applied then 80 lb/day and 14.6 tons/year,
  - $PM_{2.5}$: zero, or if all feasible control measures are applied then 82 lb/day and 15 tons/year for $PM_{2.5}$;
- Cause construction-generated criteria air pollutant or precursor emissions to exceed the General Conformity *de minimis* thresholds of 25 tons/year for ROG and NO_X, and 100 tons/year for CO, PM_{10}, and $PM_{2.5}$;
- Result in a net increase in long-term operational criteria air pollutant or precursor emissions that exceed the SMAQMD-recommended thresholds of 65 lb/day for ROG and NO_X, 80 lb/day and 14.6 tons/year for PM_{10}, and 82 lb/day and 15 tons/year for $PM_{2.5}$;
- Result in long-term operational local mobile-source CO emissions that would violate or contribute substantially to concentrations that exceed the 1-hour CAAQS of 20 parts per million or the 8-hour CAAQS of 9 parts per million;
- Expose sensitive receptors to a substantial incremental increase in TAC emission-related health risks that exceed 10 in 1 million for carcinogenic risk (e.g., the risk of contracting cancer) and/or a noncarcinogenic hazard index of 1.0 or greater; or
- Create objectionable odors affecting a substantial number of people.

3.9.3 Impact Analysis

3.9.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the present level of risk of flooding due to levee failure due to seepage, slope stability, overtopping, or other erosion concerns.

Under these conditions, a flood event could cause portions of the levees to fail, possibly triggering widespread flooding and related damage. If a catastrophic flood were to occur, emergency responders would initiate flood fighting and clean-up efforts, probably involving the operation of numerous pieces of heavy-duty construction equipment. Air pollutants emitted by this equipment could contribute to an exceedance of an applicable air quality standard, expose sensitive receptors to substantial pollutant concentrations, and create objectionable odors. Depending on the magnitude of a flood, flood fighting could last for weeks or even months. Moreover, the application of best management practices to control emissions would be unlikely during such an emergency response. All of these effects on air quality could be significant; however, the timing, duration, and magnitude of a flood event is unpredictable, and therefore precise significance determination cannot be made.

3.9.3.2 Proposed Action

Construction Emissions

The ARCF GRR FEIS/FEIR Section 3.11 (pages 240 through 245) analyzed the impacts on air quality in the Project Area. Emission sources would include the operation of off-road construction equipment, on-road vehicles traveling to and from the site during construction phasing, haul truck trips, and fugitive dust associated with earth movement and soil-disturbance activities. The Proposed Action would generate emissions from all of these construction activities.

As discussed above in Section 3.9.2.1, *Methodology*, construction emissions were evaluated with the assumption that haul trucks would have a 10-cy capacity. Total maximum daily emissions for 2022 and 2023 were estimated for ROG, NO_X, CO, PM_{10}, and $PM_{2.5}$ and evaluated against SMAQMD's thresholds and presented in **Table 3-12**.

As shown in Table 3-12, construction-related emissions under the Proposed Action, which includes reductions associated with project commitments of higher tiered engines, would exceed SMAQMD's mass daily emission threshold for NO_X, PM_{10}, and $PM_{2.5}$ in 2023 and would exceed the mass daily emission threshold for PM_{10} and $PM_{2.5}$ in 2022 and 2023. USACE would be required to pay an off-site mitigation fee for NO_X emissions to reduce the impact to a less-than-significant level.

TABLE 3-12
ARCF 2016 PROJECT, AMERICAN RIVER CONTRACT 3A CONSTRUCTION EMISSIONS

Maximum Construction Activity	Maximum Daily ROG Emissions (lb/day)[1]	Maximum Daily NO_X Emissions (lb/day)[1]	Maximum Daily CO Emissions (lb/day)[1]	Maximum Daily PM_{10} Emissions (lb/day)[1]	Maximum Daily $PM_{2.5}$ Emissions (lb/day)[1]
2022	<1	<1	<1	<1	<1
Exceed Threshold?	N/A	No	N/A	Yes	Yes
2023	4	176	20	47	6
Exceed Threshold?	N/A	Yes	N/A	Yes	Yes
CEQA Threshold	N/A	85	N/A	0[2]	0[2]

NOTES:

1 Estimates represent a worst-case construction conditions which was assumed to be from July to October 2022. For annual emissions and a comparison to Federal *de minimis* levels, see Appendix D.

2 SMAQMD has a zero pound per day threshold of PM, when best available controls are not implemented but threshold with incorporated controls are 80 lb/day for PM_{10} and 82 lb/day for $PM_{2.5}$

SOURCE: Modeling conducted by Ascent Environmental in 2021.

The Strategic Area Project Health Effects Tool was used to evaluate potential health effects of mass emissions associated with implementation of the Proposed Action. The outputs reflect the potential increase in premature death over the background health incidence rate of each health endpoint in the region.[89] The outputs of the SMAQMD's Strategic Area Project Health Effects tool for the general geographic location of the Proposed Action indicate that ozone and $PM_{2.5}$ exposure across the 5-air-district region would result in mortality of up to 20.7 persons per year above background health incidences of 75,000 mortality incidences per year, or an increase of about 0.011 percent of background incidences.

Table 3-11 summarizes the anticipated health effects in the region from the Proposed Action's emissions.

Consistent with SMAQMD's Guidance to Address the Friant Ranch Decision, the outputs summarized in Table 3-11 should be presented in the context of the current population of Sacramento County. From 2017–2019, Sacramento County experienced an annual average of 11,914 deaths from all causes (not limited to air pollution–related mortality).[90] Using the Strategic Area Project Health Effects Tool, this total number could be increased by an annual average of 6 persons per year from increased exposure to ground-level ozone and $PM_{2.5}$ from emissions generated by the Proposed Action as shown in Table 3-11.

89 Sacramento Metropolitan Air Quality Management District. 2020 (October). Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District. Available: Available: http://www.airquality.org/LandUseTransportation/Documents/SMAQMDFriantRanchFinalOct2020.pdf. Accessed December 22, 2021.

90 California Department of Public Health. 2021. County Health Status Profile. Available: https://data.chhs.ca.gov/dataset/county-health-status-profiles/resource/3781a514-d658-4779-abb5-3c71e15c1944. December 22, 2021.

Notably, the Strategic Area Project Health Effects Tool provides conservative health estimates for two reasons. The Strategic Area Project Health Effects Tool assumes that persons would be exposed to a full year of pollution at the maximum levels on a daily basis. Additionally, the Strategic Area Project Health Effects Tool assumes that a project will have emissions two to eight times SMAQMD's thresholds of significance.

The Proposed Action would generate daily mass emissions above SMAQMD's thresholds of significance; however, the estimates presented in Table 3-12 reflect a worst-case construction day where several pieces of equipment are expected to operate concurrently. Construction would not occur at those high levels every day; however, as stated above, the Strategic Area Project Health Effects Tool assumes that all persons in Sacramento County will be exposed to these levels of emissions for a full year, which would not be the case in actuality.

Additionally, the Proposed Action would not generate emissions of NO_X up to eight times SMAQMD's thresholds of significance. Thus, the outputs of the Strategic Area Project Health Effects Tool are inherently conservative. Nonetheless, the findings of the Strategic Area Project Health Effects Tool are presented above in Table 3-11 to provide information to the public that allow for a meaningful understanding of the Proposed Action's contribution of air pollution in Sacramento County.

As shown above, construction-generated exhaust emissions of NO_X would exceed SMAQMD's mass daily threshold of 85 lb/day. This impact would be significant; however, implementation of mitigation measures would reduce NO_X emissions to a less-than-significant level and, therefore, result in no adverse health effects.

Fugitive Dust

Construction of the Proposed Action would result in short-term dust emissions from grading and earth moving activities at the project construction sites and the soil borrow sites. The amount of dust generated would be highly variable and is dependent on the size of the disturbed area at any given time, amount of activity, soil conditions, and meteorological conditions. Nearby land uses, especially those residences and schools located downwind of the project sites could be exposed to dust generated during construction activities, indirectly resulting in potential adverse health effects associated with exposure to high concentrations of PM. This indirect effect would be significant, but implementation of mitigation measures set forth below would reduce dust emissions during construction to a less-than-significant level.

Toxic Air Contaminants

Construction of the Proposed Action would result in short-term diesel particulate emissions from on-site heavy-duty equipment and on-road haul trucks. Diesel PM, which is classified as a carcinogenic TAC by CARB, is the primary pollutant of concern regarding indirect health risks to sensitive receptors. Nearby land uses, especially residences and schools downwind of the project sites, could be exposed to diesel PM during construction activities, resulting in potential adverse health effects.

The assessment of health risks associated with exposure to diesel exhaust typically is associated with chronic exposure, in which a 70-year exposure period is often assumed. However, while cancer can result from exposure periods of less than 70 years, acute exposure periods (i.e., exposure periods of 2 to 3 years) to diesel exhaust are not anticipated to result in increased health risk, as health risks associated with exposure to diesel exhaust are typically seen in exposure periods that are chronic.[91] Construction activities that would require diesel-powered heavy-duty equipment associated with the Proposed Action are not expected to be used for more than 18 months. Further, construction activities of the Proposed Action would not occur over a prolonged period in any one specific location, minimizing exposure from diesel PM at any one receptor. Additionally, as required by 13 CCR Section 2449(d)(3), no in-use off-road diesel vehicles may idle for more than 5 consecutive minutes. Nonetheless, an HRA was prepared for the Proposed Action and is appended to this Supplemental EIR in Appendix D.

As discussed above in the *Methodology* section, two separate hauling scenarios were modeled for the HRA; Scenario 1: Haul Route North and Scenario 2: Haul Route South. As detailed in Appendix D, construction of the Proposed Action would result in a maximum risk exposure (chances in 1 million for carcinogenic risk) of 1.66 for Scenario 1: Haul Route North and 1.57 for Scenario 2: Haul South. The estimated risk presented here represents the point of maximum exposure (PMI), which does not exceed the SMAQMD-adopted thresholds of significance of an incremental cancer risk of 10 in a million. Therefore, values would not exceed the applicable threshold at any other nearby receptors. Thus, no sensitive receptor would be exposed to substantial TAC concentrations. Because these values do not exceed 10 in 1 million, exposure of sensitive receptors to TACs would not be considered substantial. Moreover, the Proposed Action would apply SMAQMD-recommended construction mitigation which would further reduce emissions of TACs. For these reasons, and the reasons listed above, this impact would be less than significant.

Odors

The Proposed Action would not result in any major source of odor, and the project would not involve operation of any of the common types of facilities that are known to produce odors (e.g., landfill, wastewater treatment facility). Odors associated with diesel exhaust emissions from the use of construction equipment may be noticeable from time to time by nearby receptors. However, the odors would be intermittent and temporary and would dissipate rapidly from the source with an increase in distance. Further, as required by 13 CCR Section 2449(d)(3), no in-use off-road diesel vehicles may idle for more than 5 consecutive minutes. Therefore, this impact would be less than significant.

[91] Office of Environmental Health Hazard Assessment. 2015. Guidance Manual for Preparation of Health Risk Assessments. Available: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed January 27, 2021.

Operation and Maintenance

Long-term operational and maintenance activities under the Proposed Action would result in limited emissions of criteria air pollutants and precursors from the use of on-road vehicles on the levees for inspection and maintenance activities, mowing grasses on the levees, and possibly limited heavy earth-moving equipment for repair of any damage to the site. These emissions would be limited to a temporary time frame once or twice per year. Any emissions that result from long-term operational and maintenance activities would not exceed SMAQMD or *de minimis* thresholds and would be less than significant.

ARCF GRR FEIS/FEIR Mitigation Measures

All the following mitigation measures were presented in the ARCF GRR FEIS/FEIR (pages 251 to 254) but have been revised and updated to demonstrate consistency with the most current SMAQMD recommendations. The measure to install wind breaks by planting trees or installing fences at the upstream end of construction areas was not incorporated in the Proposed Action, because it is not a practical measure for a linear construction project consisting of multiple multi-thousand-foot construction areas. Mitigation measures incorporated into the Proposed Action are as follows:

> **Mitigation Measure AQ-1: Implement SMAQMD's Basic Construction Emissions Control Practices.** SMAQMD requires construction projects to implement basic construction emissions control practices to control fugitive dust and diesel exhaust emissions.[92] USACE would implement the following control measures during project construction:
>
> - Control fugitive dust as required by SMAQMD Rule 403 and enforced by SMAQMD staff.
> - Water all exposed surfaces twice daily. Exposed surfaces include but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
> - Cover or maintain at least two feet of freeboard space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would travel along freeways or major roadways should be covered.
> - Use wet power vacuum street sweepers to remove any visible track-out of mud or dirt from adjacent public roads at least once a day. Use of dry power sweeping is prohibited.
> - Complete all roadways, driveways, sidewalks, or parking lots to be paved as soon as possible. In addition, lay building pads as soon as possible after grading unless seeding or soil binders are used.
> - Limit vehicle speeds on unpaved roads to 15 miles per hour.

92 Sacramento Metropolitan Air Quality Management District. 2019. Basic Construction Emissions Control Practices. Available: http://www.airquality.org/LandUseTransportation/Documents/Ch3BasicEmissionControlPractices BMPSFinal7-2019.pdf. Accessed December 22, 2021.

- Minimize idling time, either by shutting equipment off when not in use or by reducing the time of idling to 5 minutes (required by 13 CCR Sections 2449[d][3] and 2485). Provide clear signage that posts this requirement for workers at the site entrances.

- Maintain all construction equipment in proper working condition according to the manufacturer's specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated.

Mitigation Measure AQ-2: Implement Enhanced Fugitive Dust Control Practices. Fugitive dust mitigation for the project would require the use of adequate measures during each construction activity and would include frequent application of water or application of soil additives, control of vehicle access, and vehicle speed restrictions. USACE would implement the dust mitigation measures listed below.[93]

- Water exposed soil with adequate frequency for continued moist soil; however, do not overwater to the extent that sediment flows from the site.

- Suspend excavation, grading, and/or demolition activity when wind speeds exceed 20 miles per hour.

- Plant vegetative ground cover (fast-germinating native grass seed) in disturbed areas as soon as possible.

- Install wheel washers for all exiting trucks or wash off all trucks and equipment leaving the site.

- Treat site access to 100 feet from the paved road with a 6- to 12-inch layer of wood chips, mulch, or gravel to reduce generation of road dust and road dust carryout onto public roads.

- Post a publicly visible sign identifying the telephone number and person to contact at the lead agency regarding dust complaints. This person would respond and take corrective action within 48 hours. To ensure compliance, SMAQMD's phone number would also be visible.

Mitigation Measure AQ-3: Develop and Implement a Plan for Enhanced On-Site Exhaust Controls.[94] Actual emissions of nonattainment and maintenance pollutants would be tracked monthly using tools acceptable to SMAQMD (e.g., construction mitigation calculator, SMAQMD's Equipment List). USACE shall submit to SMAQMD a comprehensive inventory of all off-road construction equipment (50 horsepower or more) to be used 8 hours or more during project

93 Sacramento Metropolitan Air Quality Management District. 2009. Enhanced Fugitive PM Dust Control Practices. Available: http://www.airquality.org/LandUseTransportation/Documents/Ch3EnhancedFugitiveDustControl FINAL12-2009.pdf. Accessed December 22, 2021.

94 Sacramento Metropolitan Air Quality Management District. 2019.Enhanced On-Site Exhaust Controls. Available: http://www.airquality.org/LandUseTransportation/Documents/Ch3On-SiteEnhancedExhaustMitigationFinal4-2019.pdf. Accessed December 22, 2021.

construction. The tracking data would be used to verify that all pollutants remain below the CEQA daily thresholds, General Conformity *de minimis* thresholds, or are fully mitigated and offset if emissions exceed either.

The initial report would include all the following details:

- Information about the project information and the construction company.
- The equipment type, horsepower rating, engine model year, projected hours of use, and CARB equipment identification number for each piece of equipment in the plan.
- All owned, leased, and subcontracted equipment to be used.

Updated reports would be submitted monthly to demonstrate continued project compliance.

SMAQMD may conduct periodic site inspections to determine compliance. Nothing in this mitigation would supersede other air district, state, or federal rules or regulations.

Mitigation Measure AQ-4: Use Electric Construction Equipment. To the extent available and feasible, construction equipment would be powered by electricity, rather than diesel fuel, which would reduce construction-related criteria air pollutants, TACs, and tailpipe GHG emissions associated with diesel fuel combustion.

Mitigation Measure AQ-5: Pay NO_X Mitigation Fee to SMAQMD. Set in July 1, 2017 with no changes since writing this Draft Supplemental EIR (i.e., 2021), the mitigation fee rate is $30,000 per ton of emissions.[95] The contractor would pay the appropriate SMAQMD-required NO_X mitigation fee to offset the project's NO_X emissions when they exceed SMAQMD's threshold of 85 lb/day. The NO_X mitigation fee would apply to all emissions from the Proposed Action: on-road (on- and off-site), off-road, portable, stationary equipment, and vehicles.

Summary

Implementation of the mitigation measures contained in the ARCF GRR FEIS/EIR would reduce construction-generated NO_X emissions to a less-than-significant level that would not result in adverse health effects. In addition, with incorporation of dust control measures, PM (fugitive dust) emissions would be further reduced (i.e., by up to 75 percent) and would not exceed applicable SMAQMD thresholds or result in adverse health effects. The application of BMPs combined with engagement in SMAQMD's NO_X mitigation fee program or offsets obtained through purchase or loan would be sufficient to reduce

95 Sacramento Metropolitan Air Quality Management District, 2019 (April). Off-Site Construction Mitigation Fees. Available: http://www.airquality.org/LandUseTransportation/Documents/Ch3Off-SiteMitigationFeesFinal4-2019.pdf. Accessed December 22, 2021.

emissions to zero, in accordance with the Clean Air Act for projects that exceed *de minimis* levels, and consequently below SMAQMD's recommended daily mass emissions threshold of 85 lb/day. Emissions of ROG, PM_{10}, and $PM_{2.5}$ would additionally be reduced through the application of the mitigation measures. As discussed in the General Conformity Determination, included in Appendix F, the project would be in conformity with the Clean Air Act and would not cause or contribute to a new violation, nor increase the frequency or severity of existing violations of the NAAQS. Based on the conformity analysis, no exceedance of the *de minimis* thresholds in 2023 would occur. Construction-related air quality impacts would be less than significant with mitigation.

3.10 Greenhouse Gas Emissions and Energy Consumption

3.10.1 Environmental Setting

3.10.1.1 Regulatory Setting

Section 3.12 (page 254) of the ARCF GRR FEIS/FEIR identifies applicable federal, state, and local environmental laws and regulations that apply to regulating greenhouse gas (GHG) emissions. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations that apply to the Proposed Action and described the status of compliance with those laws and regulations. Additional applicable laws and regulations related to GHG emissions are summarized below.

The ARCF GRR FEIS/FEIR did not evaluate potential adverse energy impacts. Therefore, this chapter presents the applicable federal, state, and local environmental laws and regulations that pertain to energy demand, consumption, and generation. Energy-related impacts are evaluated in Section 3.10.3.

Federal

Energy Policy and Conservation Act and Corporate Average Fuel Economy Standards

The Energy Policy and Conservation Act of 1975 established nationwide fuel economy standards to conserve oil. Pursuant to this Act, the National Highway Traffic Safety Administration (NHTSA), part of the U.S. Department of Transportation (DOT), is responsible for revising existing fuel economy standards and establishing new vehicle economy standards.

Under the Energy Independence and Security Act of 2007 (described below), the CAFE standards were revised for the first time in 30 years then later updated in 2012 and 2019.

Energy Policy Act of 1992 and 2005

The Energy Policy Act of 1992 (EPAct) was enacted to reduce the country's dependence on foreign petroleum and improve air quality. EPAct includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. EPAct requires certain Federal, State, and local government and

private fleets to purchase a percentage of light-duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are also included in EPAct. Federal tax deductions are allowed for businesses and individuals to cover the incremental cost of AFVs. States are also required by the act to consider a variety of incentive programs to help promote AFVs. The Energy Policy Act of 2005 provides renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for clean renewable energy and rural community electrification; and establishes a Federal purchase requirement for renewable energy.

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 is designed to improve vehicle fuel economy and help reduce U.S. dependence on oil. It represents a major step forward in expanding the production of renewable fuels, reducing dependence on oil, and confronting global climate change. The Energy Independence and Security Act of 2007 increases the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022, which represents a nearly five-fold increase over current levels; and reduces U.S. demand for oil by setting a national fuel economy standard of 35 miles per gallon by 2020—an increase in fuel economy standards of 40 percent.

By addressing renewable fuels and the CAFE standards, the Energy Independence and Security Act of 2007 builds upon progress made by the Energy Policy Act of 2005 in setting out a comprehensive national energy strategy for the 21st century; however, on August 2, 2018, the NHSTA and EPA proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule) (49 Code of Federal Regulations [CFR] 523, 531, 533, 536, and 537 and 40 CFR 85 and 86). This rule addresses emissions and fuel economy standards for motor vehicles and is separated in two parts as described below.

Part One, "One National Program" (84 *Federal Register* [FR] 51310), revokes a waiver granted by EPA to the State of California under Section 209 of the CAA to enforce more stringent emission standards for motor vehicles than those required by EPA for the explicit purpose of greenhouse gas (GHG) reduction and, indirectly, criteria air pollutants and ozone precursor emission reduction. This revocation became effective on November 26, 2019, restricting the ability of the California Air Resources Board (CARB) to enforce more stringent GHG emission standards for new vehicles and set zero-emission-vehicle mandates in California.[96] EPA released a Notice of Reconsideration of Part One of the SAFE Rule on April 26, 2021 for public input which ended on June 6, 2021.[97]

[96] National Highway Traffic Safety Administration. 2019. The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One Nation Program. 49 CFR Parts 531 and 533. Available: https://www.federalregister.gov/documents/2019/09/27/2019-20672/the-safer-affordable-fuel-efficient-safe-vehicles-rule-part-one-one-national-program. Accessed December 22, 2021.

[97] U.S. Environmental Protection Agency. 2021 (April 26). EPA Reconsiders Previous Administration's Withdrawal of California's Waiver to Enforce Greenhouse Gas Standards for Cars and Light Trucks. Available: https://www.epa.gov/newsreleases/epa-reconsiders-previous-administrations-withdrawal-californias-waiver-enforce. Accessed December 22, 2021.

Part Two addresses CAFE standards for passenger cars and light trucks for model years 2021–2026. This rulemaking proposes new CAFE standards for model years 2022–2026 and would amend existing CAFE standards for model year 2021. The proposal would retain the model year 2020 standards (specifically, the footprint target curves for passenger cars and light trucks) through model year 2026, but comment is sought on a range of alternatives discussed throughout the proposed rule. This proposal addressing CAFE standards is being jointly developed with EPA, which is simultaneously proposing tailpipe carbon dioxide standards for the same vehicles covered by the same model years.

At the time of writing this Draft EIR, the provision of Parts One and Two of the SAFE Rule are still in effect; however, pending litigation, the SAFE Rule may not be in effect once construction of the Proposed Action commences. The analysis herein is therefore inherently conservative.

State

Statewide Greenhouse Gas Emissions Targets and the Climate Change Scoping Plan

Reducing GHG emissions in California has been the focus of the state government for approximately two decades. GHG emission targets established by the State Legislature include reducing statewide GHG emissions to 1990 levels by 2020 (Assembly Bill [AB] 32 of 2006) and reducing them to 40 percent below 1990 levels by 2030 (Senate Bill [SB] 32 of 2016). Executive Order S-3-05 calls for statewide GHG emissions to be reduced to 80 percent below 1990 levels by 2050. Executive Order B-55-18 calls for California to achieve carbon neutrality by 2045 and achieve and maintain net negative GHG emissions thereafter. These targets are in line with the scientifically established levels needed in the United States to limit the rise in global temperature to no more than 2 degrees Celsius, the warming threshold at which major climate disruptions, such as super droughts and rising sea levels, are projected; these targets also pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius.[98]

California's 2017 Climate Change Scoping Plan (2017 Scoping Plan), prepared by CARB, outlines the main strategies California will implement to achieve the legislated GHG emission target for 2030 and "substantially advance toward our 2050 climate goals."[99] It identifies the reductions needed by each GHG emission sector (e.g., transportation, industry, electricity generation, agriculture, commercial and residential, pollutants with high global warming potential, and recycling and waste). CARB and other state agencies also released the January 2019 Draft California 2030 Natural and Working

98 United Nations. 2015. Paris Agreement. Available: https://unfccc.int/sites/default/files/english_paris_agreement.pdf. Accessed January 26, 2021.

99 California Air Resources Board. 2017 (November). California's 2017 Climate Change Scoping Plan. Available: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf. Accessed December 22, 2021. pp. 1, 3, 5, 20, and 25–26.

Lands Climate Change Implementation Plan consistent with the carbon neutrality goal of Executive Order B-55-18.[100]

The state has also passed more detailed legislation addressing GHG emissions associated with industrial sources, transportation, electricity generation, and energy consumption, as summarized below.

Warren-Alquist Act

The 1974 Warren-Alquist Act established the California Energy Resources Conservation and Development Commission, now known as the California Energy Commission (CEC). The creation of the act occurred as a response to the state legislature's review of studies projecting an increase in statewide energy demand, which would potentially encourage the development of power plants in environmentally sensitive areas. The act introduced state policy for siting power plants to reduce potential environmental impacts, and additionally sought to reduce demand for these facilities by directing CEC to develop statewide energy conservation measures to reduce wasteful, inefficient, and unnecessary uses of energy. Conservation measures recommended establishing design standards for energy conservation in buildings that ultimately resulted in the creation of the Title 24 Building Energy Efficiency Standards, which have been updated regularly and remain in effect today. The act additionally directed CEC to cooperate with the Governor's Office of Planning and Research, the California Natural Resources Agency, and other interested parties in ensuring that a discussion of wasteful, inefficient, and unnecessary consumption of energy is included in all environmental impact reports required on local projects.

State of California Energy Action Plan

CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The current plan is the 2003 California Energy Action Plan (2008 update).[101] The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero-emission vehicles and addressing their infrastructure needs; and encouragement of urban design that reduces vehicle miles traveled (VMT) and accommodates pedestrian and bicycle access.

Assembly Bill 2076: Reducing Dependence on Petroleum

Pursuant to AB 2076 (Chapter 936, Statutes of 2000), CEC and CARB prepared and adopted a joint agency report in 2003, *Reducing California's Petroleum Dependence.* Included in this report are recommendations to increase the use of alternative fuels to

[100] California Environmental Protection Agency, California Natural Resources Agency, California Department of Food and Agriculture, California Air Resources Board, and California Strategic Growth Council. 2019 (January). *Draft California 2030 Natural and Working Lands Climate Change Implementation Plan.* Available: https://ww3.arb.ca.gov/cc/natandworkinglands/draft-nwl-ip-1.3.19.pdf. Accessed December 22, 2021.

[101] California Energy Commission and California Air Resources Board. 2003. Reducing California's Petroleum Dependence. Available: https://ww3.arb.ca.gov/fuels/carefinery/ab2076final.pdf. Accessed December 22, 2021.

20 percent of on-road transportation fuel use by 2020 and 30 percent by 2030, significantly increase the efficiency of motor vehicles, and reduce per capita VMT.[102] Further, in response to CEC's 2003 and 2005 *Integrated Energy Policy Reports*, Governor Davis directed CEC to take the lead in developing a long-term plan to increase alternative fuel use.

A performance-based goal of AB 2076 was to reduce petroleum demand to 15 percent below 2003 demand by 2030.

Integrated Energy Policy Report

SB 1389 (Chapter 568, Statutes of 2002) required CEC to: "conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery and distribution, demand, and prices. The Energy Commission shall use these assessments and forecasts to develop energy policies that conserve resources, protect the environment, ensure energy reliability, enhance the state's economy, and protect public health and safety" (Public Resources Code Section 25301[a]). This work culminated in the Integrated Energy Policy Report (IEPR).

CEC adopts an IEPR every 2 years and an update every other year. The 2020 IEPR Update, which is the most recent IEPR, was adopted March 23, 2021. The 2020 IEPR Update provides a summary of priority energy issues currently facing the state, outlining strategies and recommendations to further the State's goal of ensuring reliable, affordable, and environmentally responsible energy sources. Energy topics covered in the report include progress toward statewide renewable energy targets and issues facing future renewable development; efforts to increase energy efficiency in existing and new buildings; progress by utilities in achieving energy efficiency targets and potential; improving coordination among the state's energy agencies; streamlining power plant licensing processes; results of preliminary forecasts of electricity, natural gas, and transportation fuel supply and demand; future energy infrastructure needs; the need for research and development efforts to statewide energy policies; and issues facing California's nuclear power plants.[103]

Legislation Associated with Electricity Generation

The state has passed multiple pieces of legislation requiring the increasing use of renewable energy to produce electricity for consumers. California's Renewable Portfolio Standard (RPS) Program was established in 2002 (SB 1078) with the initial requirement to generate 20 percent of their electricity from renewable by 2017, 33 percent of their electricity from renewables by 2020 (SB X1-2 of 2011), 52 percent by 2027 (SB 100 of 2018), 60 percent by 2030 (also SB 100 of 2018), and 100 percent by 2045 (also SB 100 of 2018).

[102] California Energy Commission and California Air Resources Board. 2003. Reducing California's Petroleum Dependence. Available: https://ww3.arb.ca.gov/fuels/carefinery/ab2076final.pdf. Accessed December 22, 2021.

[103] California Energy Commission. 2021. Final 2020 Integrated Energy Policy Report Update. Submission date: March 23, 2021. Available: https://efiling.energy.ca.gov/getdocument.aspx?tn=237268. Accessed December 22, 2021.

Assembly Bill 1007: State Alternative Fuels Plan

AB 1007 (Chapter 371, Statutes of 2005) required CEC to prepare a state plan to increase the use of alternative fuels in California. CEC prepared the State Alternative Fuels Plan in partnership with CARB and in consultation with other Federal, State, and local agencies. The plan presents strategies and actions California must take to increase the use of alternative non-petroleum fuels in a manner that minimizes the costs to California and maximizes the economic benefits of in-state production. The plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuel use, reduce GHG emissions, and increase in-state production of biofuels without causing a significant degradation to public health and environmental quality.

Executive Order S-06-06

Executive Order S-06-06, signed on April 25, 2006, establishes targets for the use and production of biofuels and biopower, and directs state agencies to work together to advance biomass programs in California while providing environmental protection and mitigation. The Executive Order establishes the following target to increase the production and use of bioenergy, including ethanol and biodiesel fuels made from renewable resources: produce a minimum of 20 percent of its biofuels within California by 2010, 40 percent by 2020, and 75 percent by 2050. The Executive Order also calls for the state to meet a target for use of biomass electricity. The 2011 Bioenergy Action Plan identifies those barriers and recommends actions to address them so that the State can meet its clean energy, waste reduction, and climate protection goals. The 2012 Bioenergy Action Plan updates the 2011 plan and provides a more detailed action plan to achieve the following goals:

- Increase environmentally and economically sustainable energy production from organic waste.
- Encourage development of diverse bioenergy technologies that increase local electricity generation, combined heat and power facilities, renewable natural gas, and renewable liquid fuels for transportation and fuel cell applications.
- Create jobs and stimulate economic development, especially in rural regions of the state.
- Reduce fire danger, improve air and water quality, and reduce waste.

As of 2020, 2.44 percent of the total electricity system power in California was derived from biomass.[104]

[104] California Energy Commission. 2021. Total System Electric Generation. Available: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation. Accessed December 22, 2021.

Local

Sacramento Metropolitan Air Quality Management District

SMAQMD provides guidance to lead agencies for conducting GHG analyses under CEQA and is currently in the process of updating their guidance and thresholds of significance for GHG emissions. In February 2021, SMAQMD adopted the final version of the *Greenhouse Gas Thresholds for Sacramento County* guidance document. The final guidance document provides recommendations for thresholds that can be applied to construction and operational activities, and provides a tailored approach for land use development projects. However, the Proposed Project does not fit the criterion of being a land use development project; therefore, the construction thresholds of significance identified by SMAQMD will be applied in this analysis.[105]

3.10.1.2 Existing Conditions

The ARCF GRR FEIS/FEIR Section 3.12 (pages 255 through 260) describes the regional and local setting in the vicinity of the Project Area. The ARCF GRR FEIS/FEIR did not include a summary of the environmental setting as it pertains to energy resources. Therefore, a summary is provided below.

Electricity and Natural Gas Use

Electric services are provided to the City from Sacramento Municipal Utility District (SMUD). Natural gas is supplied to the City from Pacific Gas and Electric (PG&E).

California relies on a regional power system composed of a diverse mix of natural gas, renewable, hydroelectric, and nuclear generation resources. One-third of energy commodities consumed in California is natural gas. In 2020, approximately 37 percent of natural gas consumed in the state was used to generate electricity. Large hydroelectric powered approximately 12 percent of electricity and renewable energy from solar, wind, small hydroelectric, geothermal, and biomass combustion totaled 33 percent.[106] In 2020, SMUD provided its customers with 34 percent eligible renewable energy (i.e., biomass combustion, geothermal, small scale hydroelectric, solar, and wind) and 29 percent and 35 percent from large scale hydroelectric and natural gas, respectively.[107] The contribution of in- and out-of-state power plants depends on the precipitation that occurred in the previous year, the corresponding amount of hydroelectric power that is available, and other factors. SMUD is the primary electricity and natural gas service provider in Sacramento County.

[105] Sacramento Metropolitan Air Quality Management District. 2021 (February). Greenhouse Gas Emissions. Available: http://www.airquality.org/LandUseTransportation/Documents/Ch6GHG2-26-2021.pdf. Accessed December 22, 2021.

[106] California Energy Commission. 2021. Total System Electric Generation. Available: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation. Accessed December 22, 2021.

[107] Sacramento Metropolitan Utility District. 2021. 2020 Power Content Label. Available: https://www.smud.org/SMUDPCL. Accessed December 22, 2021.

The proportion of SMUD-delivered electricity generated from eligible renewable energy sources is anticipated to increase over the next three decades to comply with the SB 100 goals, as described in Section 3.10.1.

Energy Use for Transportation

In 2019, the transportation sector comprised the largest end-use sector of energy in the state totaling 39.3 percent, followed by the industrial sector totaling 23.2 percent, the commercial sectors at 18.9 percent, and the residential sector of 18.7 percent.[108] On-road vehicles use about 90 percent of the petroleum consumed in California. CEC reported retail sales of 689 million and 44 million gallons of gasoline and diesel, respectively, in Sacramento County in 2020 (the most recent data available).[109] The California Department of Transportation projects that 996 million gallons of gasoline and diesel will be consumed in Sacramento County in 2030.[110]

3.10.2 Methodology and Basis of Significance

3.10.2.1 Methodology

This analysis generally uses the same methodology described in Section 3.12 (pages 261 through 262) of the ARCF GRR FEIS/FEIR. That analysis focused on evaluating GHG impacts from construction activities because operation and maintenance activities are part of the existing environmental baseline and thus would not create a substantial source of new emissions. Where significant climate change impacts are identified, mitigation measures to reduce these impacts are specified.

GHG emissions from project construction would result from fuel usage by off-road equipment, on-road vehicles, electricity consumption by office trailers, and delivery of materials. The project's potential GHG impact was analyzed using a conservative construction scenario to estimate the maximum construction emissions generated.

A variety of methods and emissions modeling software were used to quantify criteria air pollutants, described in Section 3.9, *Air Quality*. The emission factors and models described there were also used to quantify GHG emissions. GHG emissions were summed over the duration of all anticipated activity, including the use of heavy-duty equipment, haul trucks, and worker commute trips. All inputs and assumptions are included in Appendix D.

The ARCF GRR FEIS/FEIR did not evaluate potential energy impacts. The 2018 revisions to the State CEQA Guidelines amended Appendix G to include potentially significant

[108] U.S. Energy Information Administration. 2021. California Energy Consumption by End-Use Sector, 2019. Available: https://www.eia.gov/state/?sid=CA#tabs-2. Accessed December 22, 2021.

[109] California Energy Commission. 2021. California Annual Retail Fuel Outlet Report Results Spreadsheets. Available: https://www.energy.ca.gov/media/3874. Accessed December 22, 2021.

[110] California Department of Transportation. 2008. 2007 California Motor Vehicle Stock, Travel, and Fuel Forecast. Available: https://planning.lacity.org/eir/8150Sunset/References/6.0.%20Other%20CEQA%20Considerations/OTHER.03_2008%20California%20Motor%20Vehicle%20Stock,%20Travel%20and%20Fuel%20Forecast.pdf. Accessed January December 22, 2021.

impacts related to energy consumption. Total gallons of diesel and gasoline were estimated for the Proposed Action using assumptions derived from CalEEMod and EMFAC.

3.10.2.2 Basis of Significance

This analysis uses a basis of significance described in in Section 3.12 (pages 262 through 263) of the ARCF GRR FEIS/FEIR, as restated below. The ARCF GRR FEIS/FEIR did not evaluate potential energy impacts, and significance thresholds were added for energy consumption.

The Proposed Action would result in a significant effect related to GHG emissions and energy consumption if it would:

- Conflict with an applicable plan adopted for the purpose of reducing GHG emissions.

SMAQMD has local jurisdiction over the Project Area. On October 23, 2014, the SMAQMD adopted GHG thresholds, which were informed by the California Air Pollution Control Officers Association, "CEQA and Climate Change, Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act" Document.[111] As noted in Section 3.10.1, SMAQMD adopted new thresholds of significance for GHG impacts; however, the February 2021 Final *Greenhouse Gas Thresholds for Sacramento County* guidance document is best applied to land use development projects, of which the Proposed Action is not.

Therefore, the mass-emissions thresholds for construction projects developed by SMAQMD using substantial evidence will continue to serve as the basis of determining the significance of the Proposed Action with respect to climate change impacts.

Based on the CEQA guidelines established by each air district, SMAQMD recommends quantifying and disclosing GHG emissions from construction activities; making a determination regarding the significance of these GHG emissions based on a threshold determined by the lead agency; and incorporating applicable BMPs to reduce GHG emissions during construction, as feasible and applicable. Based on the CEQA Guidelines and guidance provided by SMAQMD, the Proposed Action would have a significant contribution to global climate change if the project would:

- generate emissions of GHGs from construction activities exceeding 1,100 metric tons of carbon dioxide equivalent per year (MTCO2e/year).

Since publication of the ARCF GRR FEIS/FEIR, changes to Appendix G of the State CEQA Guidelines have been adopted that identify criteria for evaluating potentially

[111] California Air Pollution Control Officers Association. 2008. CEQA and Climate Change. Available: http://www.capcoa.org/wp-content/uploads/2012/03/CAPCOA-White-Paper.pdf. Accessed December 22, 2021.

significant energy impacts. As a result, this analysis also takes into consideration the following additional or modified significance criteria:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.
- Conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Effects Not Evaluated Further

The Proposed Action would involve short-term construction activities to improve levee structures along the American River. Once construction activities are complete (approximately 1.5 years), emissions-generating activities would cease. Operational activities may require maintenance crews visiting the site for short periods of time. However, these activities occur now, and therefore, the Proposed Action would not result in any long-term increase in GHG emissions. This issue is not discussed further.

3.10.3 Impact Analysis

3.10.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the present level of risk of flooding due to levee failure from seepage, slope stability, overtopping, or other erosion concerns.

Under these conditions, a flood event could cause portions of the levees to fail, triggering potentially widespread flooding and related damage. If a catastrophic flood were to occur, emergency flood fighting and clean-up efforts would involve the operation of heavy-duty construction equipment that would consume diesel fuel and emit GHGs. Timing and duration of use would correlate with flood fighting needs, but pollutants from this equipment could generate a notable amount of GHG emissions and fuel consumption. Depending on the magnitude of a flood, flood fighting could last for weeks or even months. All of these effects on GHG emissions would be considered significant; however, the timing, duration, and magnitude of a flood event is unpredictable and a precise significance determination cannot be made.

3.10.3.2 Proposed Action

Greenhouse Gas Emissions

The ARCF GRR FEIS/FEIR Section 3.12 (pages 261 through 266) analyzed the impacts on GHG emissions and energy consumption in the Project Area. Construction emissions associated with site-related activities and off-site commute and haul truck trips were estimated based on the emission rates and assumptions described in Section 3.9, *Air Quality*. Emission sources associated with Proposed Action-related activities include the off-road construction equipment operating in Project Area, on-road vehicles, and haul

trucks traveling to and from the Project Area. As summarized in Section 3.9, *Air Quality*, GHG emissions and fuel consumption were estimated using the assumption that haul trucks with a capacity to move 32 cubic yards (cy) would be used for all construction activities. Total annual GHG emissions (expressed in $MTCO_2e$/year) for the Proposed Action are summarized by year and are shown in **Table 3-13**.

TABLE 3-13
ARCF 2016 PROJECT, AMERICAN RIVER CONTRACT 2
CONSTRUCTION GREENHOUSE GAS EMISSIONS (SCENARIO 1)

Construction Year	Total GHG Emissions ($MTCO_2e$/year)
2022	6
Exceed Threshold?	No
2023	3,536
Exceed Threshold?	Yes
CEQA Threshold	1,100

NOTE:
$MTCO_2e$/year = metric tons of carbon dioxide per year

SOURCE: Modeling performed by Ascent Environmental in 2021.

As shown in Table 3-13, construction-related GHG emissions caused by the Proposed Action would exceed SMAQMD's mass emission construction threshold of 1,100 $MTCO_2e$/year in 2023. This would constitute a significant climate change impact. Notably, however, the Proposed Action would increase the likelihood that the flood management system could accommodate future flood events because of climate change. Consequently, the Proposed Action would improve the resiliency of the levee system with respect to changing climatic conditions, potentially reducing exposure of property or persons to the effects of climate change. Nevertheless, because the Proposed Action would exceed the 1,100 $MTCO_2e$/year threshold established by SMAQMD, climate change impacts would be significant; however, this impact would be reduced to a less-than-significant level with mitigation that would require the purchase of GHG offsets, effectively reducing emission to the SMAQMD threshold of significance.

Energy

Construction of the Proposed Action would result in an increase in fuel consumption as compared to baseline conditions. Gasoline would be consumed from worker commute trips to and from the Project Area. Diesel fuel would be required to operate heavy-duty diesel-powered construction equipment and haul trucks. **Table 3-14** displays the estimated total gallons of diesel fuel and gasoline consumption from implementation of the Proposed Action.

TABLE 3-14
ARCF 2016 PROJECT, AMERICAN RIVER CONTRACT 1
CONSTRUCTION FUEL CONSUMPTION

Fuel Type	Total Fuel Consumption (gallons)
Gasoline	1,916
Diesel	193,578

SOURCE: Modeling performed by Ascent Environmental in 2021.

As shown in Table 3-14, construction-activities would result in the consumption of approximately 1,916 and 193,578 gallons of gasoline and diesel fuel, respectively. This increase in fuel consumption would be met through existing fueling infrastructure and would not require the construction of new infrastructure that would result in an adverse environmental effect. Additionally, the use of fuel would not be considered wasteful, inefficient, or unnecessary because the Proposed Action would implement a method of improving the resiliency of the Sacramento region to flood impacts, which would be considered a necessary action for the protection of residents in the Sacramento region.

The Proposed Action would also not prevent the implementation of goals, policies, or actions contained in a plan to increase renewable energy usage or improve energy efficiency. The Proposed Action constitutes a construction project and would not generate operational electricity demand. Therefore, energy-related impacts would be less than significant.

ARCF GRR FEIS/FEIR Mitigation Measures

The following ARCF GRR FEIS/FEIR on-site mitigation measure is incorporated into the Proposed Action during construction. The portion of the measure committing to perform on-site material hauling using trucks equipped with on-road engines (if determined to result in lower levels of emissions than the off-road engines) was not incorporated, because it is not feasible for the Proposed Action.

> **Mitigation Measure GHG-1: Avoid, Minimize, and Compensate for Greenhouse Gas Emissions Effects.** The Project Partners would implement the following measures to avoid, minimize, and compensate for the Proposed Action's GHG emissions effects:
>
> - Encourage and provide carpools, shuttle vans, transit passes, and/or secure bicycle parking for construction worker commutes.
> - Recycle at least 75 percent of construction waste and demolition debris.
> - Purchase at least 20 percent of the materials and imported soil from sources within 100 miles of the project site.

- Minimize idling time, either by shutting equipment off when not in use or by reducing the time of idling to no more than 3 minutes (a 5-minute limit is required by the State airborne toxics control measure [13 CCR Sections 2449(d)(3) and 2485]). Clear signage identifying this requirement for workers would be posted at the entrances to the site.

- Maintain all construction equipment in proper working condition according to the manufacturer's specifications. The equipment would be checked by a certified mechanic and determined to be running in proper condition before it is operated.

- Use equipment with new technologies (repowered engines, electric drive trains).

- Use a CARB-approved low-carbon fuel for construction equipment. (NO_X emissions from the use of low-carbon fuel would be reviewed and increases mitigated.)

- Purchase carbon offsets for program-wide GHG emissions (direct plus indirect emissions from on-road haul trucks plus commute vehicles) that meet the criteria of being real, quantifiable, permanent, verifiable, enforceable, and additional, consistent with the standards set forth in Health and Safety Code section 38562, subdivisions (d)(1) and (d)(2). Such credits shall be based on protocols approved by the California Air Resources Board (CARB), consistent with Section 95972 of Title 17 of the California Code of Regulations, and shall not allow the use of offset projects originating outside of California, except to the extent that the quality of the offsets, and their sufficiency under the standards set forth herein, can be verified by USACE or the Sacramento Metropolitan Air Quality Management District (SMAQMD). Such credits must be purchased through one of the following: (i) a CARB-approved registry, such as the Climate Action Reserve, the American Carbon Registry, and the Verified Carbon Standard; (ii) any registry approved by CARB to act as a registry under the California Cap and Trade program; or (iii) through the California Air Pollution Control Officers Association's (CAPCOA's) GHG Rx and SMAQMD. Purchase of carbon offsets shall be sufficient to reduce the Proposed Action's GHG emissions to below SMAQMD's significance thresholds applicable prior to the start of construction through a one-time purchase of credits, according to SMAQMD's timing requirements, based on the emissions estimates in this Supplemental EIR or on an ongoing basis based on monthly emissions estimates that would be prepared in accordance with procedures established by Measure AQ-3.

Summary

Implementation of the Mitigation Measure GHG-1 would improve the fuel and material efficiency of construction equipment, which would generate fewer emissions of GHGs. Once all on-site mitigation has been applied to the Proposed Action, carbon offsets would be purchased to reduce the remaining $MTCO_2e$ to levels at or below SMAQMD's

1,100 $MTCO_2e$/year significance threshold. Therefore, implementation of the measures identified above would reduce impacts to a less-than-significant level.

3.11 Noise and Vibration

3.11.1 Environmental Setting

3.11.1.1 Regulatory Setting

Section 3.13 (page 266) of the ARCF GRR FEIS/FEIR identifies local noise ordinances that apply to regulating noise in the in the Project Area of the Proposed Action. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations that apply to the ARCF Project and described the status of compliance with those laws and regulations. There have been no changes to the applicable listed regulations related to Noise and Vibration. Specific regulations and guidelines used in this analysis are presented below.

Federal

Federal Transit Administration

To address the human response to ground vibration, the Federal Transit Administration (FTA) has set forth guidelines for maximum-acceptable vibration criteria for different types of land uses. These guidelines are presented in **Table 3-15**, below.

TABLE 3-15
GROUND-BORNE VIBRATION IMPACT CRITERIA FOR GENERAL ASSESSMENT
(VDB RE 1 MICRO-INCH/SECOND

Land Use Category	Frequent Events[a]	Occasional Events[b]	Infrequent Events[c]
Category 1: Buildings where vibration would interfere with interior operations.	65[d]	65[d]	65[d]
Category 2: Residences and buildings where people normally sleep.	72	75	80
Category 3: Institutional land uses with primarily daytime uses.	75	78	83

NOTES:
VdB = vibration decibels referenced to 1 microinch per second and based on the root mean square velocity amplitude.
[a] "Frequent Events" is defined as more than 70 vibration events of the same source per day.
[b] "Occasional Events" is defined as between 30 and 70 vibration events of the same source per day.
[c] "Infrequent Events" is defined as fewer than 30 vibration events of the same source per day.
[d] This criterion is based on levels that are acceptable for most moderately sensitive equipment such as optical microscopes. Vibration-sensitive manufacturing or research would require detailed evaluation to define acceptable vibration levels.

SOURCE: Federal Transit Administration. 2018 (September). *Transit Noise and Vibration Impact Assessment.* Washington, D.C. Available: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf. Accessed December 22, 2021.

State

California Department of Transportation

In 2013, Caltrans published the *Transportation and Construction Vibration Manual*.[112] The manual provides general guidance on vibration issues associated with construction and operation of projects in relation to human perception and structural damage. **Table 3-16** presents recommendations for levels of vibration that could result in damage to structures exposed to continuous vibration.

TABLE 3-16
CALIFORNIA DEPARTMENT OF TRANSPORTATION RECOMMENDATIONS REGARDING LEVELS OF VIBRATION EXPOSURE

Effect on Buildings	PPV (in/sec)
Architectural damage and possible minor structural damage	0.4-0.6
Risk of architectural damage to normal dwelling houses	0.2
Virtually no risk of architectural damage to normal buildings	0.1
Recommended upper limit of vibration to which ruins and ancient monuments should be subjected	0.08
Vibration unlikely to cause damage of any type	0.006-0.019

NOTES:
in/sec = inches per second; PPV = peak particle velocity

SOURCE: California Department of Transportation. 2020 (April). *Transportation and Construction Vibration Guidance Manual, 2020 Update.* Division of Environmental Analysis. Sacramento, CA. Available: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf. Accessed December 22, 2021.

3.11.1.2 Existing Conditions

The ARCF GRR FEIS/FEIR Section 3.13 (page 272) describes the regional and local setting in the vicinity of the Project Area. The following provides additional information specific to the Project Area.

Sensitive Receptors

Sensitive receptors along the American River include residents along the levee system and along the proposed haul routes. Refer to Figure 2-12 in Chapter 2, *Alternatives* for proposed haul routes and their proximity to existing land uses. Residential areas back up to the levees and in most cases, there is very little space between the levee toe and the back fence of private properties. Because the levee is higher than the houses, noise on the levees could travel into the backyards and houses. In addition, recreationists using the American River Parkway would be considered sensitive receptors, as would the local wildlife in the Parkway.

[112] California Department of Transportation, 2020 (April). *Transportation and Construction Vibration Guidance Manual, 2020 Update*. Sacramento, CA: Noise, Division of Environmental Analysis. Sacramento, CA. Available: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf. Accessed December 22, 2021.

Sources of Noise

The majority of the Project Area, including both the American River North and South basins, is in urban and residential areas, where the primary sources of noise are traffic, trains, common urban uses, and limited air traffic. Boating operation is common along the American River. Major highways and roadways which generate noise near the American River include Business 80, U.S. 50, California State Highway 160, Exposition Boulevard, Elvas Avenue, Hurly Way, C Street, and Howe Avenue. Arterial roadways and stationary sources have a localized influence on the noise environment.

Based on available existing traffic data for Business 80 (i.e., U.S. 51) and U.S. 50, existing noise levels at nearby major intersections (e.g., U.S. 51/E Street and I-50/Howe Avenue), range from approximately 83 A-weighted decibels (dBA) to 84 dBA community noise equivalent level (CNEL), respectively (see Appendix F for modeling).

3.11.2 Methodology and Basis of Significance

3.11.2.1 Methodology

This analysis generally uses the same methodology described in Section 3.13.2 (page 274) of the ARCF GRR FEIS/FEIR. Construction activities (including construction equipment used for long-term maintenance) are assumed to be the predominant source of noise and vibration associated with the project. Construction noise impacts were assessed using an analysis method recommended by the U.S. Department of Transportation for construction of large public works infrastructure projects.[113] Based on anticipated construction equipment types and methods of operation, construction noise levels for various elements of the construction process were calculated. These predicted levels were compared to significance criteria to determine whether significant impacts are predicted to occur. Where significant noise impacts are identified, mitigation measures to reduce noise impacts are specified.

Project-generated construction noise and vibration levels were determined based on methodologies, reference noise levels, and usage factors from FTA's *Transit Noise and Vibration Impact Assessment* methodology.[114] Reference levels for noise and vibration emissions for specific equipment or activity types are well documented and the usage thereof common practice in the field of acoustics. The magnitude of construction noise and vibration impacts at sensitive land uses depends on the type of construction activity, the noise and vibration levels generated by various pieces of construction equipment, the distance between the activity, and sensitive land uses. For this analysis, noise levels at various distances from the construction equipment were estimated using calculation

[113] Federal Transit Administration, 2018 (September). *Transit Noise and Vibration Impact Assessment*. Washington, D.C. Available: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf. Accessed December 22, 2021.

[114] Federal Transit Administration, 2018 (September). *Transit Noise and Vibration Impact Assessment*. Washington, D.C. Available: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf. Accessed December 22, 2021.

procedures recommended by FTA.[115] The calculations used for this analysis include distance attenuation (6 decibels per doubling of distance) and attenuation from ground absorption for both hard ground and soft ground.

Regarding temporary increases in noise from haul trucks, noise levels were estimated based on anticipated maximum daily truck activity and traffic noise modeling using methods consistent with the Federal Highway Administration's (FHWA's) Traffic Noise Model.

3.11.2.2 Basis of Significance

This analysis uses the same basis of significance described in Section 3.13.2 (page 274) of the ARCF GRR FEIS/FEIR, as stated below.

Both the City and County of Sacramento noise ordinances state that a standard of 55 dBA is applied from 7:00 a.m. to 10:00 p.m., and a standard of 50 dBA is applied from 10:00 p.m. to 7:00 a.m. for residential and agricultural uses. The Proposed Activity at Site 1-1 and the staging area is located within City limits however truck hauling trips could extend into the County. Therefore, both the City and County of Sacramento noise ordinances are included in this analysis.

These noise levels are then adjusted according to the cumulative duration of the intrusive sound. For example, if the cumulative period is 5 minutes per hour, then the standard is adjusted by 10 dBA to 65 dBA during daytime hours and 60 dBA during nighttime hours. If the cumulative period is 30 minutes per hour, no adjustments are made and the standard is 55 dBA during the daytime and 50 dBA during the nighttime, functionally similar to the average hourly noise level, or L_{eq}. The noise level that must not be exceeded for any time per hour is 75 dBA during the day and 70 dBA during the night, functionally similar to a maximum noise level or L_{max}.

The Sacramento County noise ordinance further states that construction noise is exempt from 6:00 a.m. to 8:00 p.m. Monday through Friday and from 7:00 a.m. to 8:00 p.m. on Saturdays and Sundays (Chapter 6.68 Noise Control, County of Sacramento Code). The City of Sacramento exempts construction noise from 7:00 a.m. to 6:00 p.m. Monday through Saturday and from 9:00 a.m. to 6:00 p.m. on Sundays (8.68.080 Exemptions, Noise Control Standards, City of Sacramento Municipal Code). Thus, construction noise impacts were evaluated using the City and County noise codes, where applicable.

To evaluate potential structural damage from construction activities, Caltrans guidance was used. To evaluate disturbance to sensitive receptors from construction and hauling activities, FTA guidance was used. Thus, based on the aforementioned applicable

[115] Federal Transit Administration, 2018 (September). *Transit Noise and Vibration Impact Assessment*. Washington, D.C. Available: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf. Accessed December 22, 2021.

regulations, the Proposed Action would result in a significant effect related to noise if it would result in:

- A substantial temporary (i.e., construction) or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. Due to the nature of project construction that would vary throughout the day depending on individual construction activities, applicable thresholds include construction noise levels above 55 dBA L_{eq}, or construction activity that generates excessive noise levels during sensitive times of the day; or
- Exposure of sensitive receptors or structures to groundborne vibration, that exceed the following:
  - 72 vibration decibels (VdB) for hauling activities,
  - 80 VdB for heavy-duty equipment, or
  - 0.2 peak particle velocity (PPV) for structural damage from any activity.

Since publication of the ARCF GRR FEIS/FEIR, changes to Appendix G of the State CEQA Guidelines that became effective in December 2018 were intended to reflect recent changes to the CEQA statutes and court decisions. To the extent that the topics or questions in Appendix G are not reflected in the ARCF GRR FEIS/FEIR significance criteria, these topics and questions have been taken into consideration in the impact analysis below, even though the determination of significance relies on City and County of Sacramento thresholds. Specifically, Appendix G no longer includes the criterion of the effect of permanent, temporary, or periodic increases in ambient noise levels in the project vicinity above levels existing without the project, but rather defers to local noise ordinances and standards as the relevant criteria.

Effects Not Evaluated Further

The Proposed Action would not result in any long-term sources of vibration such as railways or transit centers, and therefore, operational vibration impacts are not discussed further. In addition, no new stationary noise sources are proposed. Regarding permanent increases in traffic noise, once construction is complete, operational activities would be limited to small maintenance crews traveling to and from the site periodically to conduct inspections and limited work on-site. These activities are similar to current operations and would not result in traffic increases that could generate perceptible increases in noise. Issues related to long-term operational vibration, stationary noise sources, and traffic noise increases are not evaluated further.

The Proposed Action does not include any new land use development (e.g., residences, commercial) where people work or live, and therefore, would not expose people to aircraft or airport-related noise. Noise from aircraft and airports is not discussed further.

3.11.3 Impact Analysis

3.11.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the present level of risk of flooding due to levee failure from seepage, slope stability, overtopping, or other erosion concerns. These events would generate noise; however, noise levels would depend on the degree of severity of these events. For instance, a catastrophic flood event could generate high volumes of noise as compared to some spillage from levee overtopping.

Under the No Action/No Project Alternative, there would be no construction-related effects on the acoustic environment, including the generation of groundborne vibration. The noise levels in the study area would remain consistent with the existing ambient noise levels present under current conditions. It is highly likely that if the project is not constructed, a large flood event could result in levee failure. The amount of noise that would be generated to repair the damaged levee and cleanup of the flooded lands could exceed noise ordinances and expose sensitive receptors near the rivers to excessive noise levels and groundborne vibration from the placement of riprap to repair levees. These effects on noise would be significant; however, the timing, duration, and magnitude of a flood event is unpredictable, and a precise significance determination is not possible.

3.11.3.2 Proposed Action

Construction Noise

The project would generate construction noise from heavy-duty equipment operating at Site 1-1 and from the use of heavy-duty trucks to haul material to and from the project site and staging areas. Although these activities are associated with proposed construction activities, they are somewhat distinct and may affect different receptors; thus, they are described separately below.

Heavy-Duty Construction Equipment

The ARCF GRR FEIS/FEIR (pages 275 through 281) characterized construction noise levels from various activities that would occur during project construction, including stripping, levee degrading, soil placement, riprap installation, and roadway construction, as shown in Table 50 of the ARCF GRR FEIS/FEIR. Based on the modeling conducted for that analysis, noise levels associated with riprap installation (i.e., 88 dBA L_{eq}) would represent the loudest anticipated noise levels, which would occur during Proposed Action activities at Site 1-1. Based on modeled noise levels for riprap installation, ground absorption, and standard attenuation rates (i.e., 6-dBA reduction per doubling of distance), **Table 3-17** below shows anticipated noise levels at various distances from heavy-duty equipment use at Site 1-1.

TABLE 3-17
NOISE LEVELS DURING CONSTRUCTION OF EROSION PROTECTION

Distance Between Source and Receiver (feet)	Calculated 1-Hour L_{eq} Sound Level (dBA)
50	88
100	80
200	73
300	68
400	65
500	62
1,000	54
1,500	50
2,000	47
3,000	42

NOTE:
dBA = A-weighted decibels; L_{eq} = hourly average noise level

SOURCE: Modeled by Ascent Environmental Inc. 2021

Sensitive receptors near Site 1-1 primarily include nearby existing residential neighborhoods and neighborhood parks. The closest sensitive receptors to construction activity include single family residences located roughly 50 to 60 feet from the outer boundary of construction areas at Site 1-1. Based on the anticipated construction activities and associated noise levels, applicable thresholds (i.e., 55 dBA L_{eq}) would be exceeded where construction activity would occur within approximately 1,000 feet of existing sensitive land uses.

Haul Trucks

In addition to noise generated from the use of heavy-duty equipment required for the Proposed Activity at Site 1-1, material (e.g., bedding, riprap, soil-filled riprap, planting bench soil, and aggregate base) would be imported and excavated daily, at varying quantities from Site 1-1 and the staging area throughout the construction period (i.e., May to November). Based on aerial imagery of the site and the anticipated haul routes, receptors are located as close as 30 feet from haul routes (i.e., from directional travel lane).

To model noise levels from hauling activities, maximum daily and hourly hauling activity was calculated based on anticipated material quantities needed, as provided in Chapter 2, *Alternatives*, and in **Appendix F**.

Based on the anticipated construction schedule and sequencing of activities, haul truck trips would occur from May to November to import riprap, bedding, gravel, soil, and IWM to Site 1-1. As mentioned previously, each of the materials would be brought in and used before the next material would be needed, however some overlap in hauling in of materials could occur. According to Table 2-2, the maximum daily truck trips that could

occur if the hauling phases would overlap, could occur during material hauling phases for the rip rap and soil-fill rip rap. Table 2-2 indicates soil-filled rip rap material would require approximately 1,500 truckloads over a period of 14 days, and rip-rap material would require approximately 2,700 truckloads over a period of seven days. Based on these quantities and assuming 10 cubic-yard haul trucks, there could be a maximum of 187 one-way trips, or 374 round-trip truck trips, required to haul material. Therefore, based on a conservative estimate of an eight-hour workday (i.e., Sunday), there could be approximately 24 truck trips per hour, or the peak hour volume.

This maximum truck trip estimate was used for noise modeling purposes, but hourly and daily truck volumes may be lower in some places throughout the Proposed Activity at Site 1-1 and haul routes. Based on these quantities and assuming all trucks could be traveling on the same route, hauling activities could result in noise levels of approximately 57 dBA L_{eq} at 100 feet from the centerline of the haul routes. Predicted noise levels would not attenuate to below 55 dBA L_{eq} until 127 feet from the centerline of the haul route. Because receptors are located as close as 30 feet from haul routes (i.e., from directional travel lane), receptors along proposed haul routes would be exposed to exterior noise levels that exceed applicable thresholds of 55 dBA L_{eq}.

As discussed above, heavy-duty construction equipment at the work site, as well as peak-hourly haul truck activities would exceed City and County of Sacramento daytime noise standards of 55 dBA L_{eq}. Under the Proposed Action, there would be significant short-term impacts associated with temporary construction noise and haul truck activities; however, this impact could be reduced to a less-than-significant level with mitigation.

Vibration Generated during Construction

Regarding construction-related vibration, pile driving, and blasting activities are of primary concern for both structural damage and disturbance to sensitive receptors. Consistent with the analysis in the ARCF GRR FEIS/FEIR (pages 277 through 288) pile driving and blasting activity are not proposed. Thus, the analysis in the ARCF GRR FEIS/FEIR assumed that the highest levels of vibration could come from a vibratory compactor/roller, a likely piece of equipment that could generate groundborne vibration. In accordance with FTA guidance for determining impacts from vibration to structures (i.e., vibration levels that exceed 0.2 inch per second peak particle velocity [PPV]) and based on reference vibration levels and standard attenuation rates for a vibratory compactor, vibration from heavy-duty equipment would only be a potential issue if structures were located within 25 feet of construction activity. Regarding disturbance to sensitive land uses, construction equipment would exceed FTA-recommended criteria for infrequent events (i.e., 80 VdB) within 75 feet of construction activity. Based on aerial imagery and anticipated location of the Proposed Activity at Site 1-1, receptors are generally located 50 to 60 feet away, which is within 75 feet of construction activity. Therefore, construction equipment activity would exceed the FTA threshold for sensitive land uses and would result in an impact to nearby residential receptors.

In addition to vibration from heavy-duty equipment, vibration impacts could also result from daily haul truck activity occurring near existing sensitive land uses. The ARCF GRR FEIS/FEIR did not evaluate vibration from haul trucks, so this analysis focuses on impacts from hauling activities.

Project-related construction vibration levels were calculated using FTA guidelines based on the 30-foot distance of the nearest sensitive receptor to haul routes. For purposes of this analysis, movement of loaded haul trucks was conservatively considered to produce a vibration level of approximately 86 VdB (0.076 inch per second PPV at a distance of 25 feet).[116] Assuming a maximum vibration level of 86 VdB at 25 feet, with an attenuation rate of 9 VdB per doubling of distance, the construction vibration level would exceed the FTA threshold for structural damage at a distance of 14 feet and would exceed the threshold for structural damage at 75 feet from haul truck activity. The closest receptors along the haul truck routes are located roughly 30 feet from the directional line of traffic. At a 30-foot distance, vibration levels would be approximately 84 VdB (0.058 inch per second PPV). This vibration level is below the FTA threshold of 0.2 inch per second PPV for structural damage of normal dwelling houses. However, this vibration level is above the FTA threshold of 72 VdB (frequent events) for human annoyance and would be perceptible.

As discussed above, the use of heavy-duty construction equipment could result in vibration impacts to nearby sensitive receptors located less than 75 feet away from nearby residential receptors. Further, due to the frequency (i.e., maximum 187 per day) of daily haul trucks, hauling activities could exceed FTA recommended guidelines for frequent events of 72 VdB at some receptors. Under the Proposed Action, there would be significant impacts associated with temporary construction-related vibration from heavy-duty equipment use and haul truck activities; however, this impact could be reduced to a less-than-significant level with mitigation incorporated.

ARCF GRR FEIS/FEIR Mitigation Measures

During construction, noise-reducing measures would be employed to ensure that construction noise would comply with local ordinances. Prior to the start of construction, a noise control plan would be prepared that would identify feasible measures to reduce construction noise, when necessary. The following ARCF GRR FEIS/FEIR mitigation measure (pages 281 to 282) is incorporated into the Proposed Action:

> **Mitigation Measure NOISE-1: Implement Noise Reduction Practices.** USACE and the CVFPB would implement the following noise control measures to reduce construction-related noise effects. The following noise reduction practices would reduce noise generated by construction activities and would apply

[116] Federal Transit Administration, 2018 (September). *Transit Noise and Vibration Impact Assessment*. Washington, D.C. Available: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf. Accessed December 22, 2021.

to construction activities within 500 feet of sensitive receptors, including but not limited to residences.

- Coordinate with local residents, comply with noise ordinances, and implement Best Management Practices (BMPs).
- Provide written notice to residents within 1,000 feet of the construction zone, advising them of the estimated construction schedule. This written notice would be provided within one week to one month of the start of construction at that location.
- Display notices with such information as contractor contact telephone number(s) and proposed construction dates and times in a conspicuous manner, such as on construction site fences.
- Schedule the loudest and most intrusive construction activities during daytime hours (7:00 a.m. to 7:00 p.m.), where feasible.
- Require that construction equipment be equipped with factory-installed muffling devices, and that all equipment be operated and maintained in good working order to minimize noise generation.
- Locate stationary noise-generating equipment as far as practicable from sensitive receptors.
- Limit unnecessary engine idling (i.e., longer than 5 minutes) as required by State air quality regulations.
- Employ equipment that is specifically designed for low noise emission levels, when feasible.
- Employ equipment that is powered by electric or natural gas engines, as opposed to those powered by gasoline fuel or diesel, when available and feasible.
- If the construction zone is within 500 feet of a sensitive receptor, place temporary barriers (e.g., noise curtains, sound walls, etc.) between stationary noise equipment and noise-sensitive receptors to block noise transmission, when feasible, or take advantage of existing barrier features, such as existing terrain or structures, when feasible.
- If the construction zone is within 500 feet of a sensitive receptor, prohibit the use of backup alarms and provide an alternate warning system, such as a flagman or radar-based alarm that is compliant with State and Federal worker safety regulations.
- Locate construction staging areas as far as practicable from sensitive receptors.
- If there are any occupied buildings with plaster or wallboard construction within 40 feet of construction equipment, prepare a vibration control plan prior to construction.

Summary

Previously adopted ARCG GRR FEIS/FEIR mitigation (Mitigation Measure NOISE-1) would be incorporated into the Proposed Action and would reduce construction noise and vibration, and associated exposure, by ensuring that proper equipment is used, by requiring the noticing and installation of sound barriers to break the line of sight to nearby receptors, and by requiring alternative equipment types or alternative construction methods to be used to reduce noise to the extent possible. The mitigation limits construction activity to between 7:00 a.m. and 7:00 p.m.; however, the Proposed Action would limit construction activity to City of Sacramento daytime construction hours, which are from 7:00 a.m. to 6:00 p.m. on Mondays through Saturday and 9:00 a.m. to 6:00 p.m. on Sundays (see Section 2.1.2.4).

Additional Mitigation Measure

In addition to the mitigation measure incorporated from the ARCF GRR FEIS/FEIR (Mitigation Measure NOISE-1) above, a new Mitigation Measure NOISE-2 would require that a vibration control plan and site-specific measures would be implemented to ensure that applicable vibration thresholds would not be exceeded. Therefore, this mitigation measure would reduce the impact from vibration to a less-than-significant level.

> **Mitigation Measure NOISE-2: Implement Vibration Control Measures.** USACE and the CVFPB would implement the following vibration control measures to reduce construction-related vibration effects.
>
> - To the extent feasible and practicable, the primary construction contractors would employ vibration-reducing construction practices so that vibration from construction would comply with applicable noise-level rules and regulations, including the construction vibration standards of the City or County of Sacramento. Project construction specifications would require the contractor to limit vibrations to less than 0.2 inch per second PPV and less than 72 VdB for frequent events (i.e., truck hauling) or 80 VdB for infrequent events (i.e., heavy-duty construction activities). If construction or truck hauling activity would occur within 75 feet of an occupied building, the contractor would prepare a vibration control plan prior to construction. The plan would include measures to limit vibration, including but not limited to the following:
>
> - Avoid vibratory rollers and packers near sensitive areas. Alternatives may include pad foot rollers drum rollers, or similar non-vibratory equipment.
>
> - Route heavily loaded trucks away from residential streets, if possible. If no alternatives are available, select the streets with the fewest homes. Depending on the specific truck type that would be used, the contractor could demonstrate with substantial evidence, to the City of Sacramento, that trucks would not exceed applicable thresholds mentioned above.
>
> - Prior to construction activities, notify each residence within 75 feet of construction with contact information to request pre- and post-construction surveys to assess potential architectural damage from levee construction

vibration. The survey would include visual inspection of the structures that could be affected and documentation of structures by means of photographs and video. This documentation would be reviewed with the individual owners prior to any construction activities. Post-construction monitoring of structures would be performed to identify (and repair, if necessary) damage, if any, from construction vibration. Any damage would be documented with photographs and video. This documentation would be reviewed with the individual property owners.

- Place vibration monitoring equipment at the property line adjacent to large equipment and, with owner approval, at the back of the residential structures adjacent to the large equipment. Record measurements daily.

3.12 Recreation

3.12.1 Environmental Setting

3.12.1.1 Regulatory Setting

Section 3.14 (page 282) of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations that apply to the proposed action and Chapter 5 of the ARCF GRR FEIS/FEIR described in detail the status of compliance with those laws and regulations. There has been no change to the applicable listed regulations related to recreation as listed in the ARCF GRR FEIS/FEIR.

3.12.1.2 Existing Conditions

The ARCF GRR FEIS/FEIR Section 3.14 (pages 282 through 287) describes the regional and local setting in the vicinity of the Project Area, including descriptions of the recreational facilities, uses, and access to the Project Area. These include descriptions of the following: the American River Parkway (Parkway), and the Sutter's Landing Regional Park. In addition to the recreational facilities described in the ARCF GRR FEIS/EIR, the Proposed Action includes staging areas, an ingress/egress location, and haul routes in the Sutter's Landing Regional Park, and an ingress/egress location for construction at Glenn Hall Park in the Riverpark neighborhood. The City of Sacramento's Two Rivers Recreational Trail is located on the waterside of the levee crown road in Sutter's Landing Regional Park and is paved until it meets the Union Pacific Railroad, where the recreational trail currently ends. Glen Hall Park is located on Sandburg Drive and the terminus of Carlson Drive. The parking lot of Glenn Hall Park would be used for temporary construction vehicle access to the levee crown road. The Parkway's open spaces and natural resources provide a highly valued natural setting and variety of recreational activities include biking, running, walking, birding, fishing, and boating. The location of these sites are identified within the described context of the Proposed Action in Chapter 2, *Alternatives*.

3.12.2 Methodology and Basis of Significance

3.12.2.1 Methodology

This analysis uses the same methodology as described in Section 3.14 (page 287) of the ARCF GRR FEIS/FEIR to analyze impacts of the Proposed Action on recreational opportunities within the Project Area based on temporary and permanent changes to recreational resources.

3.12.2.2 Basis of Significance

This analysis uses the same basis of significance described in Section 3.14 (page 287) of the ARCF GRR FEIS/FEIR, as restated below.

The Proposed Action would result in a significant effect related to recreation if it would:

- Eliminate or substantially restrict or reduce the availability, access, or quality of existing recreational sites or opportunities in the Project Area;
- Cause substantial long-term disruption in the use of an existing recreation facility or activity;
- Result in inconsistencies or non-compliance with regional planning documents; or
- Result in inconsistencies with the Rivers and Harbors Act or the Wild and Scenic Rivers Act.

3.12.3 Impact Analysis

3.12.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the proposed action would not be implemented, and the Sacramento metropolitan area would experience no change in the present level of risk of flooding due to levee failure from seepage, slope stability, overtopping, or other erosion concerns.

Under these conditions, a flood event could cause portions of the levees to fail, triggering widespread flooding and related damage. If a catastrophic flood were to occur, flooding and inundation of existing recreational facilities (e.g., Sutter's Landing Regional Park), trails, bike paths, fishing access, and other recreation areas would render the American River Parkway unusable until cleanup and restoration activities could take place. All of these effects on recreation would be considered significant; however, the timing, duration, and magnitude of a flood event is unpredictable. Therefore, a precise significance determination cannot be made.

3.12.3.2 Proposed Action

The ARCF GRR FEIS/FEIR Section 3.14 (pages 282 through 293) analyzed impacts on recreation within the Project Area. The Proposed Action would result in temporary

closures of parts of the Sutter's Landing Regional Park, the Two Rivers Recreational Trail, and Glenn Hall Park during construction activities, as described in Chapter 2, *Alternatives*. Haul trucks and other construction equipment would use portions of the recreational trail to move materials, temporarily reducing accessibility to recreationists. Access roads and staging areas would be restored and reseeded, as necessary to pre-project conditions or better. Mitigation Measure REC-1 would reduce impacts on walkers, runners, cyclists, and recreationists accessing the river, by providing marked detours for bicycle trails and street bicycle routes in consultation with Sacramento County Regional Parks and the City of Sacramento Bicycle and Pedestrian Coordinator. In addition, traffic controls (including signage and pre-construction notification) would be implemented in areas where recreational traffic would intersect with construction vehicles.

All the open available recreational trails would have some locations where construction equipment would cross from staging areas or hauling of materials from off-site to the staging areas. At these locations, flaggers would be stationed to provide traffic control of construction equipment and recreationists to prevent accidents. Construction staging areas would also restrict the use of and access to recreational areas, reducing the quality of recreational experiences in that area.

While bike trails and running paths could be rerouted or accessible a short distance away from the construction site, there would still be an overall reduction in recreational quality with the construction over a 1.5-year period, or longer, and therefore, short-term temporary effects on recreation would be significant. Construction would also occur during the summer months at the peak of recreation activities in the American River Parkway. Further, proximity to construction equipment and activities may degrade the quality of recreational experiences due to noise, visual effects, odors, and air pollutants.

Such closures and disturbances would result in temporary non-compliance with American River Parkway Plan Policy 4.13, which states that flood control berms, levees, and other facilities should be, to the extent consistent with proper operation and maintenance of these facilities, open to the public for approved uses, such as hiking, biking, and other recreational activities. However, the Proposed Action would result in localized and temporary closures and the proposed improvements to the levees would improve stability required for the proper maintenance of the levees to prevent future flood risk, reducing potential for future closures of recreational facilities. The Proposed Action also would also not preclude future access to recreational areas and would not conflict with the purposes and intents of the American River Parkway Plan.

Although the construction period would be short term, temporary and localized, effects on recreational access and activities during construction would be significant. Mitigation measures would be implemented to reduce impacts on recreation. However, even with mitigation measures, the Proposed Action's effects on recreation during construction would remain significant and unavoidable.

ARCF GRR FEIS/FEIR Mitigation Measures

The following 2016 ARCF GRR FEIS/FEIR mitigation measure found in Section 3.14 (page 292) is incorporated into the Proposed Action, with modifications to provide clarity and greater local specificity on notification of the public on closures of recreation facilities affected by the Proposed Action.

Mitigation Measure REC-1: Avoid and Minimize Effects on Recreational Use. USACE and the CVFPB would implement the following measures to reduce temporary, short-term construction effects on recreational facilities in the Project Area:

- Coordinate with recreation user groups prior to and during construction for input into mitigation measures that would reduce effects to the maximum extent practicable. Advance notice would be given to recreation users, informing them of anticipated activities and detours to reduce the effects. Closures of paved trails would be noticed 14-days in advance via signage at the detour locations.
- Post signs at major entry points for parks and recreation facilities clearly indicating closures and estimated duration of closures. Information signs would notify the public of alternate parks and recreation sites, including boat launch ramps, and provide a contact number to call for questions or concerns.
- Provide flaggers and post warning signs and signs restricting access before and during construction to ensure public safety.
- Provide marked detours for all bike trails and on-street bicycle routes that would be temporarily closed during construction. Detours would be developed in consultation with the City of Sacramento Bicycle and Pedestrian Coordinator at least 10 days before the start of construction activities, as applicable. Signs that clearly indicate closure routes would be posted at major entry points for bicycle trails, information signs would be posted to notify motorists to share the road with bicyclists where necessary, and a contact number would be provided to call for questions or concerns. Fences would be erected to prevent access to the Project Area.
- Provide traffic control in areas where recreational traffic would intersect with construction vehicles.
- If any access point needs to be closed during construction, post notices providing alternative access routes.
- Upon completion of levee improvements, coordinate with the City of Sacramento and Sacramento County to restore access and repair any construction-related damage to recreational facilities to pre-project conditions.

Summary

The ARCF GRR FEIS/FEIR concluded that the mitigation measure would reduce project impacts on recreation, but construction-related impacts would remain significant and unavoidable. Previously adopted ARCF GRR FEIS/FEIR Mitigation Measure REC-1, would reduce impacts on recreational activities to the extent feasible. Although the temporary closures of recreational facilities would remain significant and unavoidable, construction of the Proposed Action would not result in recreation impacts that would be new or more severe than those addressed in the ARCF GRR FEIS/FEIR.

3.13 Public Utilities and Service Systems

3.13.1 Environmental Setting

3.13.1.1 Regulatory Setting

Section 3.16 of the ARCF GRR FEIS/FEIR (page 313) identified no Federal or State environmental laws and regulations that apply to regulating public utilities and service systems. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations that apply and described the status of compliance with those laws and regulations. There has been no change to the applicable listed regulations related to public utilities and service systems.

3.13.1.2 Existing Conditions

Although the Proposed Action contains previously unanalyzed improvements and related actions, Section 3.16 of the ARCF GRR FEIS/FEIR (pages 313 through 315) describes the regional and local setting in the vicinity of the ARCF 2016 Project, which have not changed.

3.13.2 Methodology and Basis of Significance

3.13.2.1 Methodology

This analysis uses the same methodology described in the ARCF GRR FEIS/FEIR Section 3.16 (page 316). Effects on public utilities and service systems were identified by comparing existing service capacity and facilities to public utilities and service systems during and after construction of the Proposed Action. The evaluation assumed the Proposed Action would occur in phases over approximately two years.

3.13.2.2 Basis of Significance

This analysis uses the same basis of significance described in Section 3.16 (page 316) of the ARCF GRR FEIS/FEIR, as summarized below.

The Proposed Action would result in a significant effect related to utilities and public services if it would:

- Require the construction or expansion of any utility systems due to project implementation;
- Disrupt or significantly diminish the quality of the public utilities and services for an extended period of time;
- Create an increased need for new fire protection, police protection, or ambulance services or significantly affect existing emergency response times or facilities;
- Create damage to public utility and service facilities, pipelines, conduits, or power lines; or
- Create inconsistencies or non-compliance with regional planning documents.

Since publication of the ARCF GRR FEIS/FEIR, changes to Appendix G of the State CEQA Guidelines were adopted that take into consideration the following additional or modified significance criteria:

- Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects.
- Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years.
- Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments.
- Generate solid waste more than State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals.
- Comply with Federal, State, and local management and reduction statutes and regulations related to solid waste.

Effects Not Evaluated Further

The Proposed Action includes construction activities, including clearing, grubbing, grading, bank protection, creation of planting benches, and installation of launchable rock trenches. These construction activities would result in an increase in dust in the Project Area. To meet air quality requirements, some amount of water would be used for dust suppression purposes during construction activities. The Proposed Action does not include residential or commercial developments that would create new potable water demand, generate new wastewater demand or contribute to existing wastewater systems, or require new sources of gas, electricity, or other utilities that would require the

expansion of public utilities. Therefore, no further evaluation of effects of the Proposed Action on these public services and utilities is necessary.

3.13.3 Impact Analysis

3.13.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action would not be implemented, and the Sacramento metropolitan area would experience no change in the present risk of flooding due to levee failure from seepage, slope stability, overtopping, or other erosion concerns. If a levee failure were to occur, major government facilities would be impacted until flood waters recede. Such an event could cause inundation from high flows and destruction or damage to utility lines, natural gas supply lines, and water or wastewater piping or facilities, all of which could lead to widespread contamination, temporary power outages, and interruptions of other utilities in the Project Area and surrounding areas. This could cause a temporary shutdown or slowdown of many State and local government functions. Many transportation corridors within the Project Area could be flooded if levees were to fail. All of these effects on public utilities and service systems would be considered significant; however, the timing, duration, and magnitude of a flood event is unpredictable. Therefore, a precise significance determination cannot be made.

3.13.3.2 Proposed Action

Section 3.16 of the ARCF GRR FEIS/FEIR (pages 317 through 323) analyzed impacts on public utilities and service systems in the Project Area. The analysis determined that construction activities could adversely affect existing electric power, natural gas, or telecommunications—specifically, overhead power lines and telecommunication facilities or stormwater and wastewater infrastructure facilities and systems. Drop inlets, outfall structures, drainage pipes, and other infrastructure elements that are buried, penetrate, or protrude from the levee would have to be identified, removed, or relocated before or during construction activities. Existing utilities that are functional and operational would be relocated accordingly. Possible relocation methods could be: (1) a surface line over the levee prism; or (2) a through-levee line equipped with positive closure devices.

Under the Proposed Action, no active utilities are to be relocated by construction activities associated with Site 1-1. Within Site 1-1, the Caltrans and City of Sacramento stormwater outfalls would not be altered or otherwise obstructed by the Proposed Action, resulting in no interruption or alteration of service. As further described in Chapter 2, *Alternatives*, temporary irrigation systems would be installed for the establishment and maintenance period for plantings at Site 1-1. The water source for the irrigation system would be provided through an irrigation mainline to pump water from the river. Irrigation would be temporary and applied by drip or spray. The onsite irrigation system would be temporary, use minimal water, and would not interrupt water service to the public. Therefore, there would be a less than significant impact to water availability or demand.

Construction Solid Waste

Construction of the Proposed Action would temporarily increase the generation of solid waste in the Project Area. Sources of solid waste related to construction activities would include cleared vegetation and debris. Waste materials (including cleared vegetation) and excess earth materials (e.g., soil, roots, grass, and excavated materials that do not meet levee embankment criteria) would be hauled off-site to a suitable disposal location. These materials, along with other potential solid waste materials, such as asphalt, concrete, pipes, etc., would also be removed from Project Area and would be disposed of at an appropriate, licensed landfill.

The location of the landfill used for disposal of construction-related waste would be determined by the construction contractor before the start of construction activity. This disposal would be determined based on capacity, type of waste, and other factors. Only those landfills determined to have the ability to accommodate the construction disposal needs of the Proposed Action would be used. The Kiefer Landfill, owned and operated by Sacramento County and located about 14 miles southeast of the Project Area, would likely be the landfill used. The Kiefer Landfill has more than 117 million cubic yards of total capacity within the 660-acre disposal area. Currently, 40 million cubic yards of waste occupy 3 of the 11 modules that are actively used for disposal of solid waste materials and these could accommodate all construction waste from the Proposed Action. Other landfills that may also be utilized include the L and D Landfill, Yolo County Central Landfill, and the Western Regional Landfill in Placer County. Project construction and operation would not cause existing regional landfill capacity to be exceeded; therefore, this impact would be less than significant.

Emergency Response Services

The extent and intensity of proposed construction activities, including road closures and traffic circulation patterns associated with the Proposed Action, could increase the time for first responders to quickly respond to emergency situations in the Project Area, that could result in a temporary significant impact on the capacity of emergency response services. Implementation of mitigation measures identified in the ARCF GRR FEIS/FEIR would reduce impacts on associated emergency response service levels to a less-than-significant level, because USACE and the CVFPB would prepare and implement a response plan to streamline access points and reduce response times, and would notify first responders of the potential for disruptions in the Project Area.

ARCF GRR FEIS/FEIR Mitigation Measures

The following ARCF GRR FEIS/FEIR mitigation measure found in Section 3.16 is incorporated into the Proposed Action to mitigate potential damage to utilities and infrastructure and reduce service disruptions during construction of the Proposed Action.

> **Mitigation Measure UTIL-1: Avoid and Minimize Service Disruptions and Damage to Utilities and Infrastructure.** USACE and the CVFPB would implement the measures listed below before construction begins to avoid and

minimize potential damage to utilities and infrastructure and reduce service disruptions during construction.

- Coordinate with applicable utility and service providers to implement the orderly relocation of utilities that need to be removed or relocated.
- Notify the appropriate agencies and affected landowners regarding any potential interruptions of service.
- Verify through field surveys and the use of Underground Service Alert services the locations of buried utilities in the Project Area, including natural gas, petroleum, and sewer pipelines. Any buried utility lines would be clearly marked in construction (e.g., in the field) and on the construction specifications in advance of any earthmoving activities.
- Before the start of construction, prepare and implement a response plan that addresses potential accidental damage to a utility line. The plan would identify chain-of-command rules for notifying authorities and appropriate actions and responsibilities regarding the safety of the public and workers. A component of the response plan would include worker education training in response to such situations.
- Stage utility relocations during project construction to minimize interruptions in service.
- Communicate construction activities with first responders to avoid response delays caused by construction detours.

Summary

The previously adopted ARCF GRR FEIS/FEIR Mitigation Measure UTIL-1 would adequately reduce impacts service disruptions to a less-than-significant level. Therefore, there would be no residual significant impact.

3.14 Hazards and Hazardous Materials

3.14.1 Environmental Setting

3.14.1.1 Regulatory Setting

Section 3.17 of the ARCF GRR FEIS/FEIR (pages 322–323) identified Federal or State environmental laws and regulations that apply to hazards and hazardous materials. Chapter 5 of the ARCF GRR FEIS/FEIR summarized the environmental laws and regulations that apply to the ARCF Project and described the status of compliance with those laws and regulations. Additional applicable laws and regulations not previously listed in the ARCF GRR FEIS/FEIR are listed below.

Federal

- Community Right-to-Know Act of 1986 (also known as Title III of the Superfund Amendments and Reauthorization Act)
- 49 CFR 171.1—Applicability of Hazardous Materials Regulations
- 40 CFR Part 260 - Resources and Conservation Recovery Act (RCRA)
- 49 USC 5101 -Department of Transportation Hazardous Materials Transportation Act
- 29 USC 15 – Occupational Safety and Health Administration (OSHA)

State

- 19 CCR Division 2, Chapter 4, Hazardous Material Release Reporting, Inventory, and Response Plans
- 26 CCR, California Health and Safety Code [HSC], Chapter 6.95, Section 25501; Section 25503.5, Hazardous Material Management Plans and Hazardous Material Inventory Statement Programs
- 22 CCR HSC Division 4.5, Chapter 6.5, Hazardous Waste Control Law; Chapter 11, Section 66261.3; Section 66260.10, Hazardous Materials Transportation
- 22 CCR HSC Division 37, Section 57008, California Human Health Screening Levels, California Land Environmental Restoration and Reuse Act of 2001 (Chapter 764, Statutes of 2001, Office of Environmental Health Hazard Assessment, 2010)
- 19 CCR HSC Division 2, Section 25531, California Accidental Release Response Plan Programs
- 29 CFR, Occupational Safety and Health Administration (OSHA); 8 CCR, Cal/OSHA regulations for use of hazardous materials in the workplace

3.14.1.2 Existing Conditions

Section 3.17 of the ARCF GRR FEIS/FEIR (pages 323 through 325) describes the regional and local setting in the vicinity of the Project Area related to hazards and hazardous materials. A Phase 1 Environmental Site Assessment (Phase 1) was conducted as part of the ARCF GRR FEIS/FEIR. The Phase 1 identified five hazardous waste or materials sites within the ARCF GRR FEIS/FEIR study area; however, none of the identified sites are not located within the Project Area. An updated review of the California Department of Toxic Substances Control's EnviroStor database and State Water Resources Control Board's Geotracker[117] was conducted in December 2021, and no new hazardous waste sites were listed or shown within the Project Area.

[117] California Department of Toxic Substances Control, 2021. Available: https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=Sacramento+Ca. Accessed December 10, 2021.

The California Department of Forestry and Fire Protection's mapping information determined that the Project Area is not located within a very high fire hazard severity zone.[118]

3.14.2 Methodology and Basis of Significance

3.14.2.1 Methodology

This analysis generally uses the same methodology described in Section 3.17 (page 322) of the ARCF GRR FEIS/FEIR. The methodology addressed potential sources of hazards and risks from hazardous materials that may be associated with the proposed alternatives.

3.14.2.2 Basis of Significance

This analysis uses the same basis of significance described in Section 3.17 (page 325) of the ARCF GRR FEIS/FEIR, as summarized below.

The Proposed Action would result in a significant impact related to hazardous wastes and materials if it would:

- Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials or through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment;
- Emit hazardous emissions or involve the handling of hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school;
- Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, create a significant hazard to the public or the environment; or
- Impair implementation of or physically interfere with an adopted emergency response plan or emergency excavation plan.

Since publication of the ARCF GRR FEIS/FEIR, changes to Appendix G of the State CEQA Guidelines were adopted that that address excessive noise effects on people living or working within two miles of a public airport, and risks associated with wildfire. As a result, this analysis also takes into consideration the following additional or modified significance criteria:

- For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport, would the project result in a safety hazard or excessive noise for people residing or working in the Project Area.

[118] California Department of Forestry and Fire Protection, 2007. Fire Hazard Severity Zone Maps and Adopted State Responsibility Area Fire Hazard Severity Zone Maps. https://egis.fire.ca.gov/FHSZ/. Accessed December 10, 2021.

- Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires.

Effects Not Evaluated Further

The Project Area is not located within an airport land use plan or within two miles of a public airport. The closest public airports to the Project Area are Sacramento Executive Airport (5.5 miles) and Sacramento Mather (6 miles). Therefore, the Proposed Action would result in no impacts to safety from either airport. Noise impacts are analyzed in Section 3.11, *Noise and Vibration* of this document.

The Project Area is not located in a very high fire hazard severity zone as mapped by the California Department of Forestry and Fire Protection.[119] In addition, the Proposed Action does not involve the development of occupied structures that could be at risk as a result of wildfires. Therefore, no fire hazard impact would occur. The ARCF GRR FEIS/FEIR identified five hazardous waste sites in the study area. As described previously, because none of these hazardous waste sites are within the Project Area and no active sites were found based on an updated search, no further evaluation is necessary.

3.14.3 Impact Analysis

3.14.3.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the proposed action would not be implemented, and the Sacramento metropolitan area would experience no change in the present level of risk of flooding due to levee failure from seepage, slope stability, overtopping, or other erosion concerns.

Under these conditions, a flood event could cause portions of the levees to fail, possibly triggering widespread flooding and related damage. If a catastrophic flood were to occur, emergency flood fighting and clean-up efforts would commence, in part to contain releases of hazardous materials. Hazardous materials could be released in floodwaters, exposing the public and environment to possibly dangerous pollutant concentrations. The application of best management practices to control all hazards and hazardous materials might not be feasible. All of these effects on hazards and hazardous materials would be considered significant; however, the timing, duration, and magnitude of a flood event is unpredictable, and therefore precise significance determination cannot be made.

3.14.3.2 Proposed Action

Section 3.17 of the ARCF GRR FEIS/FEIR (pages 325 through 329) analyzed the impacts associated with Hazardous Wastes and Materials during construction of levee improvements throughout the Sacramento area, including construction of levee improvements in the Project Area. Over the construction period for the Proposed Action, construction contractors would be required to use, store, and transport hazardous

[119] California Department of Forestry and Fire Protection, 2007. Fire Hazard Severity Zone Maps and Adopted State Responsibility Area Fire Hazard Severity Zone Maps. https://egis.fire.ca.gov/FHSZ/. Accessed December 10, 2021.

materials (e.g., fuel, oils, lubricants, etc.) in compliance with Federal, State, and local regulations. The ARCF GRR FEIS/FEIR stated that any hazardous substance encountered during construction would be removed and properly disposed of by a licensed contractor in accordance with Federal, State, and local regulations.

Compliance with applicable regulations would reduce the potential for accidental release of hazardous materials during transport and construction activities. While the risk of exposure is considered low and potentially significant, implementation of the mitigation measures discussed below would reduce the impacts of the Proposed Action to a less-than-significant level.

While small quantities of construction related fuels, oils, and lubricants would be used and/or stored within the staging areas, there are no schools within a 0.25 mile radius from the storage areas. In addition, the materials to be stored would not be classified as acutely hazardous and implementation of the Proposed Action would not emit any substantive quantities of hazardous materials or require handling of acutely hazardous materials, substances or waste during construction. Carlson Drive, adjacent to Caleb Greenwood Elementary School and J Street north of CSUS, would be used as a potential haul route for the Proposed Action. However, construction activities would not require the use or handling of acutely hazardous materials, substances or waste, and transportation of all other hazardous materials would be undertaken in accordance with U.S. Department of Transportation (DOT) and California Department of Transportation (CalTrans) requirements. Therefore, this impact would be less than significant.

Emergency Access

For Site 1-1, haul routes for riprap, bedding, gravel, and IWM would travel to the sites from either Interstate 80 (I-80) to the north or from U.S. 50 to the southeast. As discussed in Section 3.8, *Transportation and Circulation*, in this Supplemental EIR, haul trucks would travel to the staging areas using either of these haul routes shown on Figure 2-12 in Chapter 2, *Alternatives*. Haul trucks would travel along the top levee road between designated ingress and egress locations. In addition, soil removed during the cut bank excavation and grading at Site 1-1 would be hauled off site to either a landfill, soil stockpile locations used by the local maintaining agency (LMA) for such purposes, or both, within a 15-mile distance.

Construction traffic associated with the Proposed Action could temporarily slow traffic flow and impair implementation of or physically interfere with an adopted emergency response plan or emergency excavation plan in or near the haul routes within the Project Area during the construction period, which is expected to occur from May to October. Construction activities are anticipated during weekdays and Saturdays between 7:00 a.m. and 6:00 p.m. It is possible that during these periods, emergency response or evacuation could be briefly delayed along haul routes and response times could be reduced. Therefore, the Proposed Action effects on an emergency response plan or emergency evacuation plan would be short-term and significant until construction is completed. Implementation of the mitigation measures from the ARCF GRR FEIS/FEIR as clarified

in Section 3.8, *Transportation and Circulation*, and Section 3.13, *Public Utilities and Service Systems*, in this Supplemental EIR would reduce potential impacts on emergency access to a less-than-significant level.

ARCF GRR FEIS/FEIR Mitigation Measures

The following ARCF GRR FEIS/FEIR mitigation measure is incorporated into the Proposed Action with some modifications as detailed below.

> **Mitigation Measure HAZ-1: Avoid and Minimize Hazards.** USACE and the CVFPB would implement the following measures to avoid and minimize the impact of hazards and hazardous materials.
>
> - Comply with applicable regulations to reduce the potential for an accidental release of hazardous materials during construction. The contractor would also be required to prepare a SWPPP, which details the methods to prevent run-on and discharges from the construction sites into drainage systems, lakes, or rivers. The SWPPP would also include BMPs that detail hazardous materials handling and storage requirements as well as spill prevention and response measures that would be implemented accordingly.
>
> - Test each erosion protection site for contaminants before construction and dispose of any materials found in accordance with all Federal, State, and local regulations at an approved disposal site.

Implementation of these mitigation measures would reduce impacts from hazardous materials in the Project Area to a less-than-significant level. If significant time has elapsed (i.e., five years) between approval of this document and construction, additional investigations should be performed to reduce the risk of encountering hazardous wastes during construction.

Summary

Previously adopted ARCF GRR FEIS/FEIR Mitigation Measure HAZ-1, would reduce impacts addressed to a less-than-significant level. There would be no residual significant impact.

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CHAPTER 4
Cumulative and Growth-Inducing Effects

CEQA requires the consideration of cumulative effects of the proposed action, combined with the effects of other projects. The State CEQA Guidelines define cumulative effects as "two or more individual effects which, when considered together, compound or increase other environmental impacts" (14 CCR Section 15355). The cumulative effects of the overall ARCF project were analyzed in the 2016 ARCF GRR FEIS/FEIR (pages 335 through 357). The thorough cumulative analysis in the 2016 ARCF GRR FEIS/FEIR is incorporated by reference. But the temporal scope of the analysis was necessarily programmatic and, therefore, for the purposes of the Proposed Action, the temporal scope of the cumulative effects analysis in this Supplemental EIR considers past projects that continue to affect the Project Area in 2021, projects that are under construction in 2022, and any reasonably foreseeable future projects.

4.1 Cumulative Projects

4.1.1 Projects Contributing to Potential Cumulative Effects

This section briefly describes other similar or related projects, focusing on flood-risk reduction and habitat restoration projects that have similar effect mechanisms and affect similar resources as would the Proposed Action. Although the 2016 ARCF GRR FEIS/ FEIR identified several of these projects in the cumulative scenario, the descriptions in this section include additional projects and updated timing and schedule information that provide the cumulative context based on current documentation. The following projects are a representative sample of the reasonably foreseeable and probable programs, projects, and policies that could have impacts that could cumulatively combine with the impacts of the Proposed Action, and the other programs, projects, and policies included in the cumulative impact assessment.

Past and present projects and activities have contributed on a cumulative basis to the existing environment within the Project Area via various mechanisms, such as the following:

- population growth and associated development of socioeconomic resources and infrastructure;
- conversion of natural vegetation to agricultural and developed land uses, and subsequent conversion or restoration of some agricultural lands to developed or natural lands;

- alteration of riverine hydrologic and geomorphic processes by flood management, water supply management, and other activities; and
- introduction of nonnative plant and animal species.

Past, present, and probable future projects causing related impacts are considered in this cumulative effects analysis, including regional projects for which USACE has provided approval or is in the process of considering Section 408 permission. For elements of these projects proposed for future implementation, the construction timing and sequencing is highly variable and may depend on uncertain funding sources. However, each of these past, present, and probable future projects must be considered in the context of environmental effects from the Proposed Action to properly evaluate the cumulative effects of this action and these other similar projects on the environment.

4.1.1.1 Lower American River Common Features Project

Congressional authorizations in WRDA 1996 and WRDA 1999 enabled USACE, the CVFPB, and SAFCA to undertake various improvements to the levees along the north and south banks of the American River, as well as the east bank of the Sacramento River. Under WRDA 1996, this involved the construction of 26 miles of slurry walls along the left and right banks of the American River. The WRDA 1999 authorization included a variety of additional levee improvements, such as levee raises and levee widening improvements, to ensure that the levees could pass an emergency release of 160,000 cfs. The WRDA 1996 and 1999 projects were completed in 2016, with mitigation site monitoring ongoing.

4.1.1.2 American River Watershed Common Features 2016 Project

The greater ARCF project is scheduled for construction from 2019 through 2025. The project involves construction of levee improvements along the American and Sacramento River levees as well as proposed improvements to the Natomas East Main Drainage Canal east levee and Magpie Creek (SAFCA previously completed improvements as an early implementation action in 2018). The levee improvements scheduled for implementation include construction of cutoff walls, erosion protection, seepage and stability berms, relief wells, levee raises, and a small stretch of new levee. In addition, USACE would widen the Sacramento Weir and Bypass. The project would also involve construction of several mitigation sites in the area. In addition to the improvements that are part of the Proposed Action, the ARCF GRR includes:

- construction of a seepage and stability berm along Front Street (constructed);
- construction of the Beach Stone Lakes Mitigation Site (constructed);
- construction of the large-scale fish habitat mitigation site in the Sacramento-San Joaquin Delta (planned for 2023-2024);
- Sacramento River East Levee Seepage and Stability Contract 1 (constructed);

- additional improvements to the Sacramento River East Levee between downtown Sacramento and Freeport (planned for 2021–2024);
- erosion protection on the American River (planned for 2021–2024);
- erosion protection on the Sacramento River (planned between 2021 and 2024);
- improvements to the "East Side Tributaries, including the Magpie Creek Diversion Channel, the east bank of the Natomas East Main Drainage Canal/Steelhead Creek. Pleasant Grove Creek Canal, and Dry, Robla, and Arcade Creeks (planned for 2023); and
- widening the Sacramento Weir and Bypass, located along the north edge of the City of West Sacramento in Yolo County (planned for 2023–2025).

4.1.1.3 American River Common Features Natomas Basin Project

In 2007, the Natomas Levee Improvement Project was authorized as an early-implementation project initiated by SAFCA to provide flood protection to the Natomas Basin as quickly as possible. These projects consist of improvements to the perimeter levee system of the Natomas Basin in Sutter and Sacramento Counties, as well as associated landscape and irrigation/drainage infrastructure modifications. SAFCA, DWR, the CVFPB, and USACE have initiated this effort with the aim of incorporating the Landside Improvements Project and the Natomas Levee Improvement Project into the Federally authorized American River Watershed Common Features Project. Construction of this early implementation project was completed in 2013. In 2014, the Natomas Basin Project was authorized by Section 7002 of the Water Resources Reform and Development Act of 2014 (Public Law 113-121). Construction of Reach H and I started in 2019 and are now completed. Reach B began construction in late 2021, and Reaches A, E, F, G, and are still in design. Construction on Reach A, starting with tree clearing, is expected to begin in late 2021. Construction and construction traffic effects of this project have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.4 Local Funding Mechanisms for Comprehensive Flood Control Improvements for the Sacramento Area

SAFCA created a new assessment district ("CCAD2") to replace the existing Consolidated Capital Assessment District and updated the existing development impact fee to provide the local share of the cost of constructing and maintaining flood-risk reduction improvements and related environmental mitigation and floodplain habitat restoration along the American and Sacramento Rivers and their tributaries in the Sacramento metropolitan area. The program includes the projects necessary to provide at least a 100-year level of flood protection for developed areas in Sacramento's major flood plains as quickly as possible; achieve the State's 200-year flood protection standard for these areas within the time frame mandated by the Legislature; and improve the resiliency, robustness and structural integrity of the flood control system over time so that the system can safely contain flood events larger than a 200-year flood. The program

includes Yolo and Sacramento Bypass system improvements, levee modernization, and Lower Sacramento River erosion control. The Updated Local Funding Mechanisms Final Subsequent Program EIR was certified and the project was adopted in April 2016.

4.1.1.5 Sacramento River Bank Protection Project

The Sacramento River Bank Protection Project (SRBPP) was authorized to protect existing levees and flood control facilities of the Sacramento River Flood Control Project. The SRBPP was instituted in 1960 to be constructed in phases. Bank protection has generally been constructed on an annual basis. Phase I was constructed from 1963 to 1975 and consisted of 436,397 linear feet of bank protection. Phase II was authorized in 1974 and provided 405,000 linear feet of bank protection. The SRBPP directs USACE to provide bank protection along the Sacramento River and its tributaries, including that portion of the lower American River bordered by Federal flood control project levees. Beginning in 1965, erosion control projects at twelve sites covering 16,141 linear feet of the south and north banks of the lower American River have been implemented. This is an ongoing project, and additional sites requiring maintenance would continue to be identified indefinitely until authorized linear footage under the project is exhausted. WRDA 2007 authorized an additional 80,000 linear feet of bank protection to Phase II, which will be implemented under the SRBPP Post Authorization Change Report, which received approval in June 2020. This project is ongoing as of the date of this Draft Supplemental EIR.

4.1.1.6 West Sacramento General Reevaluation Report

The West Sacramento GRR study determined the Federal interest in reducing the flood risk within the West Sacramento project area. The purpose of the West Sacramento GRR is to bring the 50 miles of perimeter levees surrounding West Sacramento into compliance with applicable Federal and State standards for levees protecting urban areas. Proposed levee improvements would address seepage, stability, levee height, and erosion concerns along the West Sacramento levee system. Measures to address these concerns would include: (1) seepage cutoff walls; (2) stability berms; (3) seepage berms; (4) levee raises; (5) flood walls; (6) relief wells; (7) sheet pile walls; (8) jet grouting; and (9) bank protection.

The GRR was authorized in WRDA 2016 and, in the Fiscal Year 2019 work plan, received initial funding to begin preconstruction design. However, under the West Sacramento Area Flood Control Agency Early Implementation Program, three levee segments have already been completed: a small segment along the Sacramento River adjacent to the I Street Bridge, a stretch along the Sacramento River in the northern portion of the city near the neighborhood of Bryte, and the south levee of the Sacramento Bypass. The Southport setback levee was completed in 2020, with continued work to establish habitat vegetation in the floodplain in 2021. Construction and construction traffic effects of this project have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.7 Central Valley Flood Protection Plan of 2017

The Central Valley Flood Management Planning Program is one of several programs managed by DWR under FloodSAFE California, a multifaceted initiative launched in 2006 to improve integrated flood management in the Central Valley, including the North Sacramento Streams and Sacramento River East Levee Improvements areas. The Central Valley Flood Management Planning Program addresses State flood management planning activities in the Central Valley.

The Central Valley Flood Protection Plan (CVFPP) is one of several documents adopted by the CVFPB to meet the requirements of flood legislation enacted in 2007 and, specifically, the Central Valley Flood Protection Act of 2008. DWR adopted the updated CVFPB in 2017, with a focus on the Sacramento and San Joaquin Watershed Basin-Wide Feasibility Studies (BWFSs), Regional Flood Management Planning, and the Central Valley Flood System Conservation Strategy. DWR is in the process of preparing the 2022 CVFPP Update that will focus on climate resilience, project implementation, accomplishments, and performance tracking, and alignment with other State efforts. The results of these efforts support implementation of future CVFPP actions.

The CVFPP contains a broad plan for flood management system improvements, and ongoing planning studies, engineering, feasibility studies, designs, funding, and partnering are required to better define, and incrementally fund and implement, these elements over the next 20 to 25 years. Although most CVFPP projects are not well-defined and would be implemented substantially later than the Proposed Action, it is important to consider the long-term aspects of the CVFPP in conjunction with the Proposed Action.

As part of the CVFPP, the Sacramento BWFS indicates that the following improvements to the Yolo Bypass flood control system could be made and therefore are considered as future projects: constructing a setback levee in the Lower Elkhorn Basin on the east side of the Upper Yolo Bypass and on the north side of the Sacramento Bypass (discussed separately in further detail below); widening the Fremont Weir and the Sacramento Weir; widening the Upper Yolo Bypass by constructing setback levees along the east side of the Bypass in the Upper Elkhorn Basin; constructing fix-in-place improvements to the existing levees in various locations along the west and east sides of the Upper Yolo Bypass; widening the Upper Yolo Bypass by constructing setback levees north of Willow Slough and north of Putah Creek on the west side of the Bypass; adding a tie-in to the Stockton Deep Water Ship Channel and channel closure gates; and constructing a floodwall on the west side of the Sacramento River at Rio Vista.

Additional actions contemplated under the Sacramento BWFS include the following: extending the life of the Cache Creek Settling Basin by expanding it to the north; degrading the step levees at the north end of Liberty Island; widening the Lower Yolo Bypass by constructing a setback levee on the west side of the Bypass near the north end of Little Egbert Tract; degrading the existing levees along the Stockton Deep Water Ship Channel along the west side of Prospect Island; degrading the existing levees on the

northern and southern ends of Little Egbert Tract; removing the Yolo Shortline Railroad tracks and crossing over the Yolo Bypass near the I-80 overcrossing; and raising and strengthening the levees along the entire west side of the Lower Yolo Bypass.

4.1.1.8 Lower Elkhorn Basin Levee Setback Project

The project encompasses a portion of the Phase I implementation of Yolo Bypass System Improvements pursuant to DWR's Sacramento BWFS and therefore is focused on levees in the Lower Elkhorn Basin and the Sacramento Bypass. Consistent with the Sacramento BWFS, the project is intended to reduce flooding in the Lower Sacramento River Basin by increasing the capacity of the Yolo Bypass. This increased capacity will be accomplished by constructing a setback levee on the north side of the Sacramento Bypass as an early implementation action for the ARCF project and constructing a setback levee in the Lower Elkhorn Basin on the east side of the Yolo Bypass.

The Lower Elkhorn Basin Levee Setback project will also include implementing a project mitigation strategy designed to avoid, minimize, reduce, and mitigate impacts on sensitive habitats and special status species caused by the project, in a manner that optimally protects the natural environment, especially riparian habitat and stream channels suitable for native plants, wildlife habitat, agricultural lands, and public recreation. Construction of the Lower Elkhorn Basin Levee Setback project began construction in 2020 and is projected to be completed in 2025. Construction effects of this project have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.9 Folsom Dam Safety and Flood Damage Reduction Project

The Folsom Dam Safety and Flood Damage Reduction Project, referred to as the Joint Federal Project, addressed the dam safety hydrologic risk at Folsom Dam and improved flood protection to the Sacramento area. Several activities associated with the project included: the Folsom Dam Auxiliary Spillway, static upgrades to Dike 4, Mormon Island Auxiliary Dam modifications, and seismic upgrades (piers and tendons) to the Main Concrete Dam. The project was completed in fall 2017.

4.1.1.10 Folsom Dam Water Control Manual Update

The Folsom Dam Water Control Manual (WCM) was updated on June 12, 2019 to reflect authorized changes to the flood management and dam safety operations at Folsom Dam to reduce flood risk in the Sacramento area. The WCM Update utilizes existing and authorized physical features of the dam and reservoir, specifically the recently completed auxiliary spillway. Along with evaluating operational changes to utilize the additional capabilities created by the auxiliary spillway, the WCM Update assessed the use of available technologies to enhance the flood risk management performance of Folsom Dam to includes a refinement of the basin wetness parameters and the use of real time forecasting.

Further, the WCM Update evaluated options for the inclusion of creditable flood control transfer space in Folsom Reservoir in conjunction with Union Valley, Hell Hole, and

French Meadows Reservoirs (also referred to as Variable Space Storage). The evaluation resulted in an Engineering Report as well as a Water Control Manual implementing the recommendations of the analysis.

4.1.1.11 Folsom Dam Raise

Construction of the Folsom Dam Raise project will follow completion of the Joint Federal Project and the WCM projects. The Dam Raise project includes raising the right- and left-wing dams, Mormon Island Auxiliary Dam, and Dikes 1–7 around Folsom Reservoir by 3.5 feet. The raising of Dike 8 was completed in 2020. The Dam Raise project also includes the three emergency spillway gates and three ecosystem restoration projects (automation of the temperature control shutters at Folsom Dam and restoration of the Bushy and Woodlake sites downstream). Similar to the ARCF Project, the Folsom Dam Raise Project was fully funded by the Bipartisan Budget Act of 2018. Construction activities began in 2019 included Dike 8 construction, to be followed by Dikes 1-7, the Mormon Island Auxiliary Dam, and the Left and Right wing of Folsom Dam in 2022. The ecosystem restoration projects are not scheduled at this time. Construction and construction traffic effects of this project have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.12 SAC 5 Corridor Enhancement Project

Caltrans is constructing the SAC 5 Corridor Enhancement Project on Interstate 5 (I-5) from 1.1 miles south of Elk Grove Boulevard to the American River Viaduct. The project will rehabilitate pavement and other related assets, construct 23 miles of new High Occupancy Vehicle lanes, install new fiber optic lines, and extend the I-5 northbound #1 lane to improve merging. The project includes rehabilitating 67 lane miles of mainline and all ramps/connectors. The project also includes adding auxiliary lanes and extending acceleration and deceleration lanes. Project construction requires lane closures on I-5 and is expected to continue through December 2022. Construction and construction traffic effects of this project have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.13 Bridge District Specific Plan

The Bridge District Specific Plan, formerly the Triangle Plan, was adopted in 1993 and significantly updated in 2009 (City of West Sacramento 2009). The intent of the Bridge District Specific Plan was to provide a framework for development of a well-planned, waterfront-oriented urban district for the City of West Sacramento, along the west bank of the Sacramento River. Several housing complexes have been built, as well as other riverfront recreational improvements, and the Barn, a local event space and beer garden along the Sacramento River just south of Sutter Health Park (formerly known as Raley Field). Ongoing development includes additional housing units currently under construction. Construction, road construction, and construction traffic associated with the Bridge District have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.14 Sacramento Railyards Project

The Railyards district is located just north of Downtown Sacramento and south of the River District and once served as the western terminus of the 1860s Transcontinental Railroad, with the largest locomotive repair and maintenance facility west of the Mississippi River. Today, the Railyards continue to house a major transportation hub and the City of Sacramento has proposed to redevelop the area into a mixed-use, transit-oriented development. The historic 244-acre Southern Pacific site would be transformed into a dynamic, urban environment featuring a state-of-the-art mass transit hub that would serve residents, workers, and visitors. In October 2016, the City Council approved a planning entitlement for the Sacramento Railyards. The project includes housing units, retail space, office space, a medical campus, hotels, parks, and a soccer stadium. Construction has been scheduled on Phase 1 starting in 2018 with development of the remaining phases to be determined at some future time. Construction, road construction, and construction traffic associated with the Railyards project have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.15 Delta Shores Development Project

The Delta Shores is an approximately 800-acre master planned development that includes an estimated 1.3 million square feet of constructed and operating retail space, an estimated 250,000 square feet of hotel and commercial uses, and an estimated 4,900 residential units. Most of the project site is located east of I-5 at Cosumnes River Boulevard, east of Freeport and north of the Sacramento Regional County Sanitation District Wastewater Treatment Plant Bufferlands. The Beach Lake Levee (operated and maintained by SAFCA) is adjacent to the Delta Shores southern boundary (east of I-5). Approximately 100 acres of the Delta Shores project site lies along the west side of I-5 and abuts the Sacramento River East Levee in the northwest corner and near the southwest corner. In this western portion of Delta Shores, medium- and high-density residential housing will be developed on the north side of Stonecrest Avenue. Adjacent to and north of the housing, and adjacent to Freeport Boulevard on the west side, a park will be developed. Medium- and low-density residential housing will be developed on the south side of Stonecrest Avenue.

Cosumnes River Boulevard was recently extended by approximately 3.5 miles (from the east side of State Route 99 to I-5), and a new I-5 interchange was constructed to provide regional connectivity for local residents and access to the future Delta Shores development (particularly the shopping center); the road and interchange improvements were completed in 2015. Construction on the shopping center began in 2016, and the complex opened in 2017. Construction and construction traffic associated with Delta Shores have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.16 Caltrans SAC-51 American River Bridge Deck Replacement Project

Caltrans proposes to rehabilitate the American River Bridge along State Route (SR) 51/ Business Intestate 80 in Sacramento County. The project would remove and replace the existing concrete deck, remove and replace the steel girder post-tensioning systems, modify the existing soundwall, install sheet piling around piers for scour mitigation, construct concrete catcher blocks, widen the bridge to accommodate traffic during construction, add a Class I bike/pedestrian path, and plan for future transportation needs on SR 51. The purpose of the project is to replace the deck on the American River Bridge on SR 51 in Sacramento County, prevent scour, and provide a multimodal connection between downtown and eastern Sacramento and plan for future transportation needs. The proposed work would repair, protect, and extend the service life of the deck starting in 2022. Construction and construction traffic associated with Caltrans SAC-51 project have the potential to contribute to cumulative impacts with the Proposed Action.

4.1.1.17 City of Sacramento Two Rivers Trail Phase II Project

The Two Rivers Trail Phase II project will provide a 2.4 mile long multi-use trail between Sutter's Landing Regional Park and H Street near California State University - Sacramento. The trail will provide residents of River Park and East Sacramento a safe, convenient, and protected path into downtown Sacramento. The overall goal of the project is to eventually have the trail connect to the Sacramento River Parkway and create a continuous trail system along both sides of the Sacramento and American Rivers. In addition, the project will clear the next phase of the trail between Sutter's Landing Park and the Sacramento Northern Bike Trail. The proposed work to construct the trail will begin in 2023. Construction and construction traffic associated with the Two Rivers Trail Phase II project have the potential to contribute to cumulative impacts with the Proposed Action.

4.2 Cumulative Effects

4.2.1 Visual Resources

Cumulative impacts on visual resources are primarily related to other construction projects that could occur within the same visual viewscape as the Proposed Action Area at the same time and result in loss of visual quality both during construction and after construction. Construction of Alternative 2 approved of in the Record of Decision for the ARCF GRR FEIS/FEIR would result in a significant number of large trees and other vegetation removed along the Sacramento River and the American River. Other projects in the cumulative setting (see Section 4.1 in this chapter) have and could result in the removal of large trees and other vegetation. Implementation of the Proposed Action, when combined with other past, current, and future projects in the vicinity, would result in a significant cumulative impact on visual resources, primarily from removal of vegetation. Additionally, the long time period for replanted vegetation to reach a size similar to the vegetation removed as a result of construction would be considered a cumulatively significant effect on visual resources along the Sacramento and American Rivers.

As part of the Proposed Action, construction crews, equipment, and haul trucks would be visible to residents adjacent to local streets, and staging areas, and to residences adjacent to the work sites. In addition, construction would be visible to recreationists within the American River Parkway. However, construction would be temporary, and because construction would proceed along the levees in a linear fashion, the views of construction crews, equipment, and haul trucks would be of short duration, and other current projects in the cumulative setting would not be visible within the same viewshed as the Proposed Action. Additional nighttime lighting for the Proposed Action staging areas would be short term and would add few sources of light to the current cumulative nighttime light in the urbanized areas adjacent to the staging areas. Further, nighttime light from the Proposed Action would be mitigated to reduce effects to minimal levels, as described in Chapter 3, Section 3.2, *Visual Resources*, and the Proposed Action would not result in a cumulatively considerable incremental contribution to significant cumulative effects related to visual resources.

4.2.2 Hydrology and Water Quality

Most of the levee projects in the cumulative setting, including the Proposed Action, involve subsurface geotechnical work to repair levees in place and, consequently, there would be no effects on flooding. Some projects, such as the West Sacramento GRR and the SRBPP, include levee raises, flood walls, and bank protection. In addition, the West Sacramento GRR and Lower Elkhorn Basin Levee Setback Project include construction of new setback levees. The Proposed Action, in addition to other levee projects in the region, are designed to current Federal flood design criteria and include vegetation to help stabilize the banks and, thus, reduce the rate and amounts of surface run-off from the levee slope into waterways. The Proposed Action would not result in a cumulatively considerable incremental contribution to significant cumulative effects related to flood system capacity.

Related projects, including the Sacramento River Bank Protection Project and the West Sacramento GRR, could be under construction during the same time frame as the Proposed Action. If construction occurs during the same time frame, water quality could be diminished, primarily due to increased turbidity from soil released during construction activities. Water quality could be affected in or adjacent to the Proposed Project area and upstream and downstream of the work area. Construction activities such as clearing and grubbing, grading, and rock placement, have the potential to temporarily degrade water quality through the direct release of soil and construction materials into water bodies or the indirect release of contaminants into water bodies through runoff. All projects would be required to comply with the NPDES Construction General Permit requirements of the RWQCB and overall water quality would be required to meet the Basin Plan objectives. The Proposed Action would not result in a cumulatively considerable incremental contribution to significant cumulative effects related to water quality.

4.2.3 Vegetation and Wildlife

The Proposed Action has the potential to contribute to the loss or degradation of sensitive habitats, including riparian woodland and scrub, waters of the United States, and waters of the State and forestland. Similar potential for adverse effects on habitats would be associated with the flood-risk reduction projects, including future ARCF contracts proposed along the Sacramento River and the American River, and removal of high-hazard vegetation by levee maintaining agencies in the Sacramento area and surrounding region. Such projects would generally continue to contribute to the loss or degradation of sensitive habitats and forestland. Most potential adverse effects of the Proposed Action and the related levee projects would be associated with construction disturbances of habitats, but permanent loss of habitat would also result from some of the individual levee improvement projects and the development projects. Implementation of Mitigation Measures described in Section 3.4, *Vegetation and Wildlife*, would reduce or avoid the effects of the Proposed Action in accordance with the requirements of the Federal Endangered Species Act and California Fish and Game Code (including the California Endangered Species Act) and other regulatory programs that protect habitats, such as Clean Water Act (CWA) Sections 401 and 404. Although the Proposed Action's temporary impacts would be significant, the Proposed Action would not result in a cumulatively considerable incremental contribution to significant cumulative effects related to the permanent loss or degradation of sensitive habitats or loss of forestland.

4.2.4 Fisheries

Project implementation has the potential to contribute to the loss or degradation of fish habitat, including near-shore aquatic SRA habitat. Similar potential for adverse effects on habitats would be associated with the flood-risk reduction projects, including future ARCF contracts proposed along the American River and Sacramento River, and construction of bank protection projects and removal of high-hazard vegetation by levee maintaining agencies in the Sacramento area and surrounding region. Such projects would generally continue to contribute to the loss or degradation of fish habitat, including SRA habitat, resulting in significant cumulative impacts. Potential adverse effects of the Proposed Action and the related levee projects would be associated with construction disturbances of aquatic habitats, but permanent loss of SRA habitat would also result from some of the individual levee improvement projects and the development projects. Implementation of Mitigation Measures described in Section 3.5, *Fisheries*, including water quality protection measures, and establishment of on-site and off-site SRA habitat creation, and would reduce or avoid the effects of the Proposed Action in accordance with the requirements of the Federal Endangered Species Act and California Fish and Game Code (including the California Endangered Species Act) and other regulatory programs that protect habitats, such as CWA Sections 401 and 404. Although the Proposed Action's temporary impacts would be less than significant with mitigation, the Proposed Action would not result in a cumulatively considerable contribution to significant cumulative effects on the permanent loss or degradation of fish habitat.

4.2.5 Special Status Species

Project implementation has the potential to adversely affect special status species: Crotch bumble bee, valley elderberry longhorn beetle, western pond turtle, western yellow-billed cuckoo, bank swallow, Swainson's hawk, Cooper's hawk, burrowing owl, white-tailed kite, purple martin, heron- and egret rookeries, other nesting birds, and bats, American badger, Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, Central Valley fall-/late fall-run Chinook salmon, hardhead, western river lamprey, and Sanford's arrowhead. Similar potential for adverse effects on special status species and their habitats would be associated with the flood-risk reduction projects, including future ARCF contracts proposed along the American River and Sacramento River, and removal of high-hazard vegetation by levee maintaining agencies in the Sacramento area and surrounding region. Such projects would generally continue to adversely affect special status species. Most potential adverse effects of the Proposed Action and nearby levee projects relate to plants, fish, and wildlife would be associated with construction disturbances of special status species and their habitats, but permanent loss of habitat would also result from some of the individual levee improvement projects and the development projects. These adverse effects could contribute to species declines and losses of habitat that have led to the need to protect these species under the Federal Endangered Species Act and the California Fish and Game Code (including the California Endangered Species Act). Implementation of Mitigation Measures described in Section 3.6, Special Status Species, would reduce or avoid the effects of the Proposed Action in accordance with the requirements of the Federal and California Endangered Species Acts, and other sections of the California Fish and Game Code. Therefore, the Proposed Action would not result in a cumulatively considerable incremental contribution to significant cumulative adverse effects on special status species.

4.2.6 Cultural Resources

Implementation of the Proposed Action, other flood-risk reduction projects, including the ARCF GRR projects proposed along the American River and Sacramento River, and other projects considered in this cumulative analysis, have the potential to contribute to the loss or degradation of known and unrecorded archaeological resources, known prehistoric-period cultural landscapes, known and unknown human remains, and known and unknown historic-period archaeological resources.

Most potential effects of the Proposed Action and other related projects to cultural resources would be associated with construction disturbances of archaeological sites, prehistoric cultural landscapes, and human remains. These effects could contribute to the loss of intact cultural resources and human remains in the Sacramento region.

Implementation of the mitigation measures presented in Chapter 3, Section 3.7, *Cultural Resources*, would reduce or avoid the effects of the Proposed Action on known cultural and tribal cultural resources and on unknown archaeological resources, tribal cultural, and human remains that could potentially be discovered during project construction. As

such, the Proposed Action would not result in a cumulatively considerable incremental contribution to significant cumulative effects on cultural resources.

4.2.7 Transportation

Most traffic effects related to the Proposed Action would occur along I-80, U.S. 50, and local roadways within the City and County of Sacramento, in the vicinity of the Proposed Action area. Other levee projects would occur at locations that are more distant from the Proposed Action. There are no known projects that would affect the local haul routes shown in Chapter 2, *Project Description*. Because potentially significant traffic effects are only expected to occur for approximately six months during the project construction period, it is difficult to predict if other projects would have traffic volumes that would cumulatively affect traffic during these same time periods. If other projects substantially affect traffic during these peak construction periods, the potential cumulative effects would be significant on segments of I-80 and U.S. 50, and the Proposed Action would make a considerable contribution. Mitigation described in Section 3.8, *Transportation and Circulation*, includes a traffic control and road maintenance plan to reduce the Proposed Action's impact. This mitigation requires emergency service providers be notified in advance of road closures and detours and requires emergency access to be maintained. Because other major construction projects would also implement traffic control plans specifically designed to provide appropriate emergency access, the Proposed Action would not result in an incremental contribution to a significant cumulative effect related to emergency vehicle access or response times.

Bicycle and pedestrian paths affected by the Proposed Action would be in the vicinity of the construction activities and along potential haul routes within the American River Parkway and nearby neighborhoods. As part of mitigation measures, the Proposed Action would always provide signage and detours to maintain safe pedestrian and bicyclist access around the construction areas. In general, major construction projects concurrent with the Proposed Action would also implement traffic control plans specifically designed to provide continued safe routes for alternative modes of transportation during construction. Therefore, the Proposed Action would not result in an incremental contribution to a significant cumulative effect related to performance or safety of alternative modes of transportation.

4.2.8 Air Quality

Air quality is inherently a cumulative effect because existing air quality is a result of past and present projects. No single project would be sufficient in size, by itself, to result in nonattainment of the regional air quality standards.[120] Several other construction projects (see list in Section 4.1.1, *Projects Contributing to Potential Cumulative Effects*) are expected to occur simultaneously in the Sacramento Valley Air Basin during the planned construction period for the Proposed Action. The related projects have the potential to

[120] SMAQMD. 2014 (as amended). *Guide to Air Quality Assessment in Sacramento County* (CEQA Guide). Available: http://www.airquality.org/businesses/ceqa-land-use-planning/ceqa-guidance-tools. Accessed March 26, 2020.

generate construction-related emissions that individually exceed SMAQMD's threshold of significance. However, all construction projects in the SMAQMD, including the Proposed Action are required to mitigate and offset emissions that have the potential to negatively affect air quality in the Sacramento Valley Air Basin through implementation of SMAQMD emissions reductions practices. In addition, many offset projects create long-term, permanent emissions reductions (which result in a benefit).

Furthermore, the Proposed Action is part of the larger ARCF project, which has been determined to meet the requirements of general conformity with the provisions of the Clean Air Act (CAA) through payment of fees to offset NOx emissions. As discussed in Section 3.9, *Air Quality*, the Proposed Action would result in a cumulatively considerable incremental contribution to a significant cumulative effect related to regional air quality, and this contribution would be mitigated through implementation of Mitigation Measures described in Section 3.9, *Air Quality*.

With respect to localized air pollutants such as CO, TACs, and odors, the Proposed Action and the related projects would generate these pollutants only during construction, and the construction activities for these projects would be temporary and short term. Some of the related projects may generate concentrations of these pollutants at levels that exceed applicable thresholds. However, the CEQA and NEPA documents for the related cumulative projects contain mitigation measures that must be implemented to reduce individual project emissions. As discussed in Section 3.9, the Proposed Action would not generate CO, TACs, or odors at levels that would represent a health hazard. Therefore, the proposed project would not result in a cumulatively considerable incremental contribution to a significant cumulative effect related to generation of CO, TACs, or odors during construction.

4.2.9 Greenhouse Gas Emissions and Energy Consumption

Climate change as related to GHG emissions is inherently cumulative. Though significance thresholds can be developed by air districts and State and Federal regulatory agencies, these thresholds and their related goals are ultimately designed to affect change at a global level. Therefore, the analysis presented in Section 3.10, *Greenhouse Gas Emissions and Energy Consumption*, includes the analysis of both the project and cumulative effects. The Proposed Action and the related cumulative projects would result in the generation of GHGs, in proportion to the size of each individual project, amount and time of operation of construction equipment, and distances traveled. However, the Proposed Action and the related projects that would generate GHG emissions more than threshold levels would implement the mitigation measures identified in their respective CEQA and/or NEPA documents and adopted to reduce emissions and/or purchase carbon offsets. Furthermore, the Proposed Action would not exceed the Council on Environmental Quality's GHG threshold guidance levels and the Proposed Action would be consistent with Statewide climate change adaptation strategies. Therefore, the Proposed Action would not result in a considerable incremental contribution to a significant cumulative effect related to climate change or energy consumption.

4.2.10 Noise

None of the cumulative projects would be located in the immediate vicinity of the Proposed Action. A cumulative effect might occur if construction activities associated with any of the related project(s) were to occur within 500 feet of the Proposed Action's construction activities, and also, if the construction activities of other projects were to occur at the same time or overlap at some point during the construction activities of the Proposed Action. Furthermore, although any of the related cumulative projects could require construction that exceeds the respective local City or County noise ordinances, the Proposed Action would limit noise-generating activities to the hours when the City of Sacramento exempts construction noise. Therefore, the Proposed Action would not result in a considerable incremental contribution to a significant cumulative effect related to construction equipment or traffic noise levels in excess of standards established in the local general plan or noise ordinance, in other applicable local, State, or Federal standards, or exceeding the ambient background.

4.2.11 Recreation

The Proposed Action, along with the related cumulative projects, may result in temporary closure of recreational facilities, potential damage to recreational facilities, and temporary diminishment of recreational experiences during construction. Implementation of Mitigation Measures described in Section 3.12, Recreation, would reduce the Proposed Action's effects, but temporary impacts would remain significant and unavoidable. Because of the temporary nature of the construction effects and the likelihood that any access restrictions or degradation of the quality of recreational experiences would last for approximately 3–7 months in any location, the Proposed Action's effects on local recreation are not anticipated to overlap with effects of other related cumulative projects. Consequently, cumulative effects related to recreation resources would be less than significant, and the Proposed Action would not result in a considerable incremental contribution to a significant cumulative effect related to short-term temporary changes in recreational opportunities during project construction activities.

4.2.12 Public Utilities and Service Systems

The Proposed Action, and future ARCF projects along the American River and Sacramento River, and all the other related cumulative projects, could temporarily disrupt utility service as a result of inadvertent damage to existing utility equipment, facilities, and infrastructure. However, any utility and service system effects would be geographically isolated, short in duration, and occur on a project-by-project basis. Thus, these disruptions would not combine to form cumulative effects. Therefore, the Proposed Action would not result in a considerable incremental contribution to a significant cumulative effect related to potential disruption of utility services.

Temporary construction activities associated with the Proposed Action and related projects in the Sacramento Region would generate organic and non-organic solid waste. Waste material that is not suitable for disposal on-site would likely be disposed of in

Kiefer or the L and D Landfills. Both landfills currently provide solid waste disposal services to municipal and commercial customers and provide construction demolition and debris disposal in Sacramento County. Both landfills have sufficient permitted capacity to accommodate solid waste disposal needs for Sacramento County, including the disposal needs of the Proposed Action and the related cumulative projects. Therefore, the Proposed Action would not result in a considerable incremental contribution to a significant cumulative effect related to increases in solid waste generation.

4.2.13 Hazards and Hazardous Materials

Implementation of the Proposed Action and the related projects would include handling small quantities of hazardous materials used in construction equipment (e.g., fuels, oils, lubricants) and during construction activities. The storage, use, disposal, and transport of hazardous materials are extensively regulated by various Federal, State, and local agencies. Permits are required for the use, handling, and storage of these materials, and compliance with appropriate regulatory agency standards agencies is also required to avoid releases of hazardous waste. Construction companies that handle hazardous substances for the Proposed Action and all the related projects are required by law to implement and comply with these existing regulations. Furthermore, any effect that might occur would be localized to the area where the materials are being used and would not be additive to other hazardous materials-related effects associated with the Project Area. None of the materials would be acutely hazardous, and they would not be used in within 0.25 mile of schools. Thus, the Proposed Action would not result in a cumulatively considerable incremental contribution to a significant cumulative effect related to the potential for accidental spills of materials used during construction activities or handling of hazardous materials within 0.25 mile of a school.

Project implementation could result in exposure to unknown hazardous materials sites during construction activities. It is unknown whether any of the related project sites contain existing hazards materials. However, Mitigation Measures identified in Section 3.14, *Hazards and Hazardous Materials*, would minimize potential exposure to unknown hazards and hazardous materials during implementation of the Proposed Action. Further, only future related ARCF GRR projects along the LAR are located in close proximity to the Project Area. Therefore, the Proposed Action would not result in a considerable incremental contribution to a significant cumulative effect related to existing hazardous materials.

Wildland fire represents a hazard particularly during the hot, dry summer and fall in the Central Valley. Most of the related projects, including future levee and development projects, would be implemented in urbanized areas, similar to the Proposed Action, with a relatively low risk of wildland fire, and the Proposed Action and related projects are not located in a high fire hazard severity zone. Therefore, there would be no significant cumulative impact related to wildland fire risk, and the Proposed Action would not result in a considerable incremental contribution to a significant cumulative effect related to wildland fire hazards.

4.3 Growth-Inducing Effects

Because the Proposed Action would not involve construction of housing, the action would not directly induce growth. Proposed Action-related construction activities would generate temporary and short-term employment, but the construction jobs would be filled from the existing local employment pool and would not indirectly result in a population increase or induce growth by creating permanent new jobs. Furthermore, the project would not involve constructing businesses or extending roadways or other infrastructure that could indirectly induce population growth. Consequently, the Proposed Action would not induce growth leading to changes in land use patterns, population densities, or related impacts on environmental resources.

Levee improvements would benefit areas identified for future growth anticipated in the vicinity of the American River in the City of Sacramento and Sacramento County. Local land use decisions are within the jurisdiction of the City of Sacramento and Sacramento County, both of which have adopted general plans consistent with State law. The City of Sacramento 2035 General Plan[121] and currently planned 2040 General Plan provide an overall framework for growth and development in the City. The City General Plan identified a few areas as "New Growth Areas" throughout the City boundaries and in "Special Study Areas." The Sacramento County 2030 General Plan[122] and current proposed amendments to the general plan provide a framework for development in the County, including areas identified for future growth that benefit from the levee system along the American River.

The levee improvements would increase the levee's resistance to erosion, provide better overall levee stability and reliability, and provide additional flood protection for growth anticipated in the City's and County's General Plans. Growth throughout the Project Area has already been planned as part of the City's and County's General Plans. The Proposed Action would not allow additional growth to occur other than the growth that has already been planned and approved, nor would it change the locations where this growth is planned to occur. Consequently, implementation of the Proposed Action would not affect current and/or projected population growth patterns within the City of Sacramento and County of Sacramento as already evaluated and planned for in the both the City's and County's General Plans and, therefore, would not have an indirect effect on growth. The Proposed Action would mitigate flood risks by improving levees to meet engineering standards associated with the National Flood Insurance Program; it would not alter protection for the 100-year event nor does it transfer any such risk to other areas. The Proposed Action would not directly or indirectly support development in the base floodplain.

[121] City of Sacramento. 2015. *2035 General Plan*. Adopted March 3, 2015.
[122] Sacramento County. 2011. *2030 General Plan*. Adopted November 9, 2011, as amended.

4.4 Irreversible and Irretrievable Commitment of Resources

The discussion of irreversible and irretrievable commitments of resources in the 2016 ARCF GRR FEIS/FEIR adequately describes the effects of the Proposed Action.

CHAPTER 5
Compliance with Federal and State Laws and Regulations

5.1 Federal Laws and Regulations

5.1.1 Clean Air Act of 1970

The Federal Clean Air Act (CAA) of 1970, as amended (42 USC 7401 et seq.) requires the U.S. Environmental Protection Agency (EPA) to establish national ambient air quality standards (NAAQS). EPA has established primary and secondary NAAQS for the following criteria air pollutants: ozone, PM_{10}, $PM_{2.5}$, CO, NO_2, SO_2, and lead. The primary standards protect the public health and the secondary standards protect public welfare. The CAA also requires each state to prepare an air quality control plan, referred to as a State Implementation Plan.

An analysis of air quality effects of the Proposed Action is presented in Section 3.9, *Air Quality*. The Proposed Action is not expected to violate any Federal air quality standards. Although the NOx emissions of the ARCF 16 project as a whole are expected to exceed the EPA's General Conformity *de minimis* thresholds during several of the ARCF 16 project's construction years, including 2022, and 2023, USACE expects to purchase offsets for NOx emissions from SMAQMD. The CAA requires that EPA set emissions standards for a range of pollution sources. Specifically, EPA and the National Highway Traffic Safety Administration (NHTSA) regulate emissions from on-road vehicles include automobiles and light-duty trucks. In 2012, EPA and NHSTA established the Corporate Average Fuel Economy (CAFE) standards for automobiles and light-duty trucks for model years 2014 and beyond (77 *Federal Register* [FR] 62624). Under the original iteration of the CAFE standards, fuel economy would be raised to the equivalent of 54.6 miles per gallon by 2025 (77 FR 62630).

On April 2, 2018, EPA administrator announced a final determination that the current standards should be revised. On August 2, 2018, the U.S. Department of Transportation (DOT) and EPA proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule), which would amend existing CAFE standards for passenger cars and light-duty trucks through retaining the current model year 2020 standards through model year 2026 and establish new standards covering model years 2021 through 2026 (NHTSA 2018).

The CAA grants California the ability to enact and enforce stricter fuel economy standards through the acquisition of an EPA-issued waiver. Each time California adopts a new vehicle emission standard, the State applies to EPA for a preemption waiver for

those standards. However, Part One of the SAFE Rule, which became effective on November 26, 2019, revokes California's existing waiver to establish a nation-wide standard (84 FR 51310). At the time of preparing this environmental document, the implications of the SAFE Rule on California's future emissions are contingent upon a variety of unknown factors.

5.1.2 Community Right-to-Know Act of 1986

The Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act, imposes requirements to ensure that hazardous materials are properly handled, used, stored, and disposed of and to prevent or mitigate injury to human health or the environment in the event that such materials are accidentally released. The Proposed Action would comply with this law.

5.1.3 Energy Policy and Conservation Act and Corporate Average Fuel Economy Standards

The Energy Policy and Conservation Act of 1975 established nationwide fuel economy standards to conserve oil. Pursuant to this Act, the National Highway Traffic Safety Administration (NHTSA), part of the U.S. Department of Transportation (DOT), is responsible for revising existing fuel economy standards and establishing new vehicle economy standards.

The Corporate Average Fuel Economy (CAFE) program was established to determine vehicle manufacturer compliance with the government's fuel economy standards. Compliance with the CAFE standards is determined based on each manufacturer's average fuel economy for the portion of their vehicles produced for sale in the country. EPA calculates a CAFE value for each manufacturer based on the city and highway fuel economy test results and vehicle sales. The CAFE values are a weighted harmonic average of the EPA city and highway fuel economy test results. Based on information generated under the CAFE program, DOT is authorized to assess penalties for noncompliance. Under the Energy Independence and Security Act of 2007 (described below), the CAFE standards were revised for the first time in 30 years then later updated in 2012 and 2019. The Proposed Action would comply with this law.

5.1.4 Energy Policy Act of 1992 and 2005

The Energy Policy Act of 1992 (EPAct) was enacted to reduce the country's dependence on foreign petroleum and improve air quality. EPAct includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. EPAct requires certain Federal, State, and local government and private fleets to purchase a percentage of light-duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are also included in EPAct. Federal tax deductions are allowed for businesses and individuals to cover the incremental cost of AFVs. States are also required by the act to consider a variety of incentive programs to help promote AFVs. The Energy Policy Act of 2005 provides

renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for clean renewable energy and rural community electrification; and establishes a Federal purchase requirement for renewable energy. The Proposed Action would comply with this law.

5.1.5 Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 is designed to improve vehicle fuel economy and help reduce U.S. dependence on oil. It represents a major step forward in expanding the production of renewable fuels, reducing dependence on oil, and confronting global climate change. The Energy Independence and Security Act of 2007 increases the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022, which represents a nearly five-fold increase over current levels; and reduces U.S. demand for oil by setting a national fuel economy standard of 35 miles per gallon by 2020—an increase in fuel economy standards of 40 percent.

By addressing renewable fuels and the CAFE standards, the Energy Independence and Security Act of 2007 builds upon progress made by the Energy Policy Act of 2005 in setting out a comprehensive national energy strategy for the 21st century; however, on April 2, 2018, EPA administrator announced a final determination that the current standards should be revised. On August 2, 2018, DOT and EPA proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule), which would amend existing CAFE standards for passenger cars and light-duty trucks through retaining the current model year 2020 standards through model year 2026 and establish new standards covering model years 2021 through 2026 (NHTSA 2018).

The CAA grants California the ability to enact and enforce stricter fuel economy standards through the acquisition of an EPA-issued waiver. Each time California adopts a new vehicle emission standard, the State applies to EPA for a preemption waiver for those standards. However, Part One of the SAFE Rule, which became effective on November 26, 2019, revokes California's existing waiver to establish a nation-wide standard (84 FR 51310). At the time of preparing this environmental document, the implications of the SAFE Rule on California's future emissions are contingent upon a variety of unknown factors. The Proposed Action would comply with this law.

5.1.6 Hazardous Materials Transportation Act

The Secretary of the U.S. Department of Transportation (DOT) receives the authority to regulate the transportation of hazardous materials from the Hazardous Materials Transportation Act, as amended and codified in 49 USC 5101 et seq. DOT, in conjunction with the USEPA, is responsible for enforcement and implementation of federal laws and regulations pertaining to safe storage and transportation of hazardous materials. 49 CFR Sections 171 through 180, regulate the transportation of hazardous materials, types of material defined as hazardous, and the marking of vehicles

transporting hazardous materials. Contractors would be required to comply with the Act for all storage and transportation of hazardous materials and wastes to reduce the possibility of inadvertent releases and spills. The Proposed Action would comply with this law.

5.1.7 Resources Conservation and Recovery Act (RCRA) of 1976

The Resource Conservation and Recovery Act (42 USC § 6901 et seq.) was adopted in 1976 and codified in 40 CFR Part 260. RCRA Subtitle C regulates the generation, transportation, treatment, storage and disposal of hazardous waste by "large-quantity generators" (1,000 kilograms per month or more) as well as "small quantity generators" (under 1,000 kilograms) through comprehensive life cycle or "cradle to grave" tracking requirements. The requirements include maintaining inspection logs of hazardous waste storage locations, records of quantities being generated and stored, and manifests of pick-ups and deliveries to licensed treatment/storage/disposal facilities. RCRA also identifies standards for treatment, storage, and disposal. Contractors would be required to comply with RCRA hazardous waste requirements to reduce the possibility of inadvertent releases and spills. The Proposed Action would comply with this law.

5.1.8 Occupational Safety and Health Administration (OSHA) of 1970

OSHA is the Federal agency responsible for ensuring worker safety. The Occupational Safety and Health Act of 1970 (29 USC 15) and its implementing regulations provide standards for safe workplaces and work practices, including those relating to hazardous materials handling. All workers during construction would comply with OSHA's hazardous materials management and handling requirements including such measures as having all appropriate personal protective equipment (PPE) to reduce the possibility of acute or chronic exposure hazards and protect worker safety. The Proposed Action would comply with this law.

5.1.9 Endangered Species Act of 1973

Pursuant to the Endangered Species Act (ESA), as amended (16 USC 1531 et seq.), USFWS and NMFS have regulatory authority over Federally listed species. Under the ESA, a permit to take a listed species is required for any Federal action that may harm an individual of that species. "Take" is defined under ESA Section 9 as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Under Federal regulation, take is further defined to include habitat modification or degradation where it would be expected to result in death or injury to listed wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering. ESA Section 7 outlines procedures for Federal interagency cooperation to conserve Federally listed species and designated critical habitat. Section 7(a)(2) requires Federal agencies to consult with USFWS and NMFS to

ensure that they are not undertaking, funding, permitting, or authorizing actions likely to jeopardize the continued existence of listed species. A list of threatened and endangered species that may be affected by the Proposed Action was obtained from USFWS in 2019 (Appendix B). USACE formally consulted with USFWS on the ARCF Project and received a Biological Opinion (BO) on September 11, 2015 (08ESMF00-2014-F-0518). USACE conducted reinitiations for this BO with USFWS in June 2017, May 2019, and September 2020. The Proposed Action is an element of the ARCF Project. USACE formally consulted with NMFS on the ARCF Project and received a Biological Opinion on September 9, 2015. USACE is required to reinitiate formal consultation with USFWS and/or NMFS if effects on listed species would vary from what was provided at the time of formal consultation. USACE continues to update USFWS and NMFS on impacts and mitigation for covered species associated with implementing ARCF Project actions, and USACE would reinitiate consultation with USFWS and/or NMFS if completed design documents and specifications for associated ARCF projects provide more detailed data concerning anticipated adverse effects on listed species. Consultation with USFWS and NMFS was ongoing at the time of publication of this document. The Proposed Action would comply with this law.

5.1.10 Executive Order 11988, Floodplain Management

Executive Order (EO) 11988 directs all Federal agencies approving or implementing a project to avoid, to the extent possible, the long- and short-term adverse effects associated with the occupancy and modification of floodplains and to avoid direct or indirect support of floodplain development wherever there is a practicable alternative. Guidelines for implementing the EO include an eight-step process that agencies should carry out as part of their decision-making on projects that have potential effects on or within the floodplain. The decision-making process required in Section 2(a) of EO 11988 is reflected in the eight steps that are listed below, along with information showing how each step is being addressed for the Proposed Action. The Proposed Action would comply with this law.

1. Determine if a proposed action is in the base floodplain (that area which has a 1 percent or greater chance of flooding in any given year (i.e., the 100-year floodplain). The project includes levee improvements, some of which form the boundary of the base (FEMA's 100-year) floodplain.

2. Conduct early public review, including public notice. Public review is being accomplished through the NEPA Supplemental EA and the CEQA Supplemental EIR process; SAFCA previously conducted extensive public outreach for an earlier iteration of the project prior to authorization by Congress.

3. Identify and evaluate practicable alternatives to locating in the base floodplain, including alternative sites outside of the floodplain. Alternatives to the Proposed Action are discussed in Chapter 2, *Alternatives*.

4. Identify effects of the proposed action. This Supplemental EIR analyzes the environmental effects potentially resulting from the project, per CEQA requirements.

Effects of the Proposed Action are described in Chapter 3, *Affected Environment and Environmental Consequences*. Effects are also being evaluated in compliance with the CWA, and other Federal and State environmental regulations.

5. Minimize threats to life and property and restore and preserve natural and beneficial floodplain values. The Proposed Action would reduce flood risk to life and property by ensuring the American River Levees at Sites 2-2 and 2-3 meet the engineering standards associated with the National Flood Insurance Program (NFIP). The project includes mitigation to maintain or improve habitat values along the American River Levees at Sites 2-2 and 2-3.

6. Reevaluate alternatives. USACE is conducting an extensive engineering review of SAFCA's initial designs for improvements to address through-and under-seepage hazards on the American River Levees at Sites 2-2 and 2-3. The Proposed Action includes those portions of SAFCA's initial design which were initially reviewed and approved, in addition to several modifications that were developed because of USACE's reevaluation of the alternatives. The alternatives are also evaluated and may be refined through consultation with the resource agencies for compliance with CWA, and other project authorizations.

7. Present the findings and a public explanation. As part of the CEQA process, the public would be able to review and comment on this Supplemental EIR.

8. Implement the action. USACE intends to implement the Proposed Action in 2020, assuming receipt of all necessary approvals, clearances, permits, and permissions.

9. The project would mitigate flood risks by improving levees to meet engineering standards associated with the NFIP; it would not alter protection for the 100-year event, nor does it transfer any such risk to other areas. Because the project would not directly or indirectly support development in the base floodplain, it would comply with EO 11988.

5.1.11 Executive Order 11990, Protection of Wetlands

The purpose of EO 11990 is to "minimize the destruction, loss or degradation of wetlands and to preserve and enhance the natural and beneficial values of wetlands." To meet these objectives, EO 11990 requires Federal agencies, in planning their actions, to consider alternatives to wetland sites and limit potential damage if an activity affecting a wetland cannot be avoided. EO 11990 applies to:

- acquisition, management, and disposition of Federal lands and facilities construction;
- improvement projects which are undertaken, financed, or assisted by Federal agencies; and
- Federal activities and programs affecting land use, including but not limited to water and related land resources planning, regulation, and licensing activities.

- As discussed in Section 3.4, *Vegetation and Wildlife*, forested wetlands are located within the footprint of the Proposed Action and will be impacted during construction activities. However, impacts to forested wetlands will be minimized to the greatest extent feasible. Where feasible, forested wetlands will be restored onsite and additional forested wetlands will be created within the American River and other offsite locations to ensure no net loss of wetlands as a result of implementation of the Proposed Action.

The Proposed Action would comply with this law.

5.1.12 Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations

The purpose of EO 12898 is to identify and address the disproportionate placement of adverse environmental, economic, social, or health effects from Federal actions and policies on minority and/or low-income communities. EO 12898 requires that adverse effects on minority or low- income populations be taken into account during preparation of environmental and socioeconomic analyses of projects or programs that are proposed, funded, or licensed by Federal agencies. Section 2-2 of EO 12898 requires all Federal agencies to conduct programs, policies, and activities that substantially affect human health or the environment in a manner that ensures that such programs, policies, and activities do not have the effect of excluding persons (including populations) from participation in, denying persons the benefits of, or subjecting persons to discrimination because of their race, color or national origin. Section 1-101 of EO 12898 requires Federal agencies to identify and address, as appropriate, disproportionately high, and adverse human health or environmental effects of programs on minority and low-income populations.

The Proposed Action would reduce the risk of flooding to existing residential, commercial, and industrial development protected by the American River Levees at Sites 2-2 and 2-3. This benefit would accrue to all segments of the population in the Project Area and would have no disproportionately high adverse environmental effect on any minority or low-income population. The Proposed Action would comply with this law.

5.1.13 Executive Order 13112, Invasive Species

EO 13112 directs Federal agencies to take actions to prevent the introduction of invasive species, provide for control of invasive species, and minimize the economic, ecological, and human health impacts that invasive species cause. EO 13112 also calls for the restoration of native plants and tree species.

Project construction activities have potential to introduce new invasive plants or spread existing invasive plants on the project site, but temporarily disturbed areas would be hydroseeded with a native seed mix for erosion protection and to prevent colonization of exotic vegetation and mitigation measures would include planting of native riparian

species. Additional information is provided in Section 3.4, *Vegetation and Wildlife*. The Proposed Action would comply with this law.

5.1.14 Farmland Protection Policy Act

The Farmland Protection Policy Act (7 USC 4201 et seq.) is intended to minimize the effect of Federal programs with respect to the conversion of farmland to nonagricultural uses. It ensures that, to the extent possible, Federal programs are administered to be compatible with State, local, and private programs and policies to protect farmland. The Natural Resources Conservation Service is the agency primarily responsible for implementing the Farmland Protection Policy Act.

There are no prime farmlands in the levee improvement area.

5.1.15 Clean Water Act

EPA is the lead Federal agency responsible for water quality management. The CWA of 1972, as amended (33 USC 1251 et seq.), is the primary Federal law that governs and authorizes water quality control activities by EPA, as well as the State.

The Proposed Action would involve the placement of fill materials or construction within surface waters, local waterways, or any other Waters of the United States and, therefore, would comply with permit requirements of Sections 401 and 404 of the Clean Water Act. USACE prepared a Section 404(b)(1) Evaluation. At the time of publication of this document, USACE was preparing a Notice of Intent for Contract 3A to be appended to the ARCF GRR Project Programmatic Water Quality Certification issued by the Central Valley Regional Water Quality Control Board on July 13, 2021. Prior to construction, the contractor will be required to obtain a NPDES permit for potential effects on stormwater discharge, including preparation of a SWPPP. With the implementation of these permits, the Proposed Action would be in compliance with the Clean Water Act.

5.1.16 Fish and Wildlife Coordination Act of 1958

The Fish and Wildlife Coordination Act of 1958, as amended (16 USC 661 et seq.), ensures that fish and wildlife receive consideration equal to that of other project features for projects that are constructed, licensed, or permitted by Federal agencies. It requires that the views of USFWS, NMFS, and the applicable State fish and wildlife agency (CDFW) be considered when effects are evaluated and mitigation needs are determined.

In 2015, during preparation of the ARCF GRR FEIS/FEIR, USACE coordinated with USFWS to consider potential effects on vegetation and wildlife from implementation of the overall ARCF 2016 project. On October 5, 2015, USFWS issued a final Coordination Act Report that provided mitigation recommendations (USFWS File # 08ESMF00-20 13-CPA-0020). USACE considered all recommendations and responded to them in the final ARCF GRR FEIS/FEIR. Reinitiation of the BA was conducted in 2020. The Proposed Action would therefore comply with this act.

5.1.17 Magnuson-Stevens Fishery Conservation and Management Act

The Proposed Action would involve in-water work, and implementing standard water quality protection measures, stormwater pollution prevention BMPs, and mitigation measures for monitoring and control of turbidity would avoid indirect effects on essential fish habitat. The Proposed Action would therefore be in compliance with this act.

5.1.18 Migratory Bird Treaty Act of 1936

The Migratory Bird Treaty Act (MBTA) of 1936, as amended (16 USC 703 et seq.), implements domestically a series of international treaties that provide for migratory bird protection. The MBTA authorizes the Secretary of the Interior to regulate the taking of migratory birds; the act provides that it is unlawful, except as permitted by regulations, "to pursue, take, or kill any migratory bird, or any part, nest or egg of any such bird …" (16 USC 703). This prohibition includes both direct and indirect acts, although harassment and habitat modification are not included unless they result in direct loss of birds, nests, or eggs. The current list of species protected by the MBTA includes several hundred species and essentially includes all native birds. Permits for take of nongame migratory birds can be issued only for specific activities, such as scientific collecting, rehabilitation, propagation, education, taxidermy, and protection of human health and safety and personal property.

The Proposed Action incorporates mitigation measures that minimize the potential for the take of migratory birds as a consequence of project construction, as discussed in Section 3.4, *Vegetation and Wildlife*. The Proposed Action would comply with this law.

5.1.19 National Flood Insurance Program

The National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973 were intended to reduce the need for large, publicly funded flood control structures and disaster relief by restricting development on floodplains. The Federal Emergency Management Agency (FEMA) manages the National Flood Insurance Program (NFIP) to subsidize flood insurance to communities that comply with FEMA regulations limiting development in floodplains. FEMA issues Flood Insurance Rate Maps for communities participating in the NFIP. These maps delineate flood hazard zones in the community. The maps are designed for flood insurance purposes only and do not necessarily show all areas subject to flooding. The maps designate lands likely to be inundated during a 1 percent (100-year) storm event and elevations of the base flood. They also depict areas between the limits affected by 1 percent (100-year) and 0.2 percent (500-year) events and areas of minimal flooding. Flood Insurance Rate Maps are often used to establish building pad elevations to protect new development from flooding effects.

The Proposed Action would bring the American River South Basin and American River North Basin to Annual Exceedance Probabilities of 1 in 147 and 1 in 256, respectively. The Proposed Action would comply with this law.

5.1.20 National Historic Preservation Act of 1966

The NHPA (54 U.S.C. 300101 *et seq.*) is the primary Federal legislation specific to cultural resources. Section 106 of the NHPA and its implementing regulations (36 CFR Part 800) require Federal agencies to consider the potential effects of their proposed undertakings on historic properties. Historic properties are cultural resources that are included in, or are eligible for inclusion in, the NRHP (36 CFR § 800.16[l]). Undertakings include activities directly carried out, funded, or permitted by Federal agencies. Federal agencies must also allow the Advisory Council on Historic Preservation the opportunity to comment on proposed undertakings and their potential effects on historic properties.

Because the ARCF 2016 Project is being implemented in phases, and because implementation of phases of the ARCF 2016 Project may have an effect on historic properties, USACE consulted with the SHPO and other parties and executed a PA to govern Section 106 compliance. The PA establishes the process USACE would follow for compliance with Section 106, taking into consideration the views of the signatory and concurring parties and interested Native American Tribes.

The Proposed Action incorporates treatment measures in consideration of cultural resources listed on or eligible for listing on the NRHP, as discussed in Section 3.7, *Cultural Resources*. Determinations of the specific mitigation measures to be implemented to resolve or avoid effects on known Historic Properties would be made by USACE, in consultation with SHPO and other PA Parties, as required by the PA and as described in detail in the HPMP for the ARCF Project. Specific mitigation measures that are consistent with the PA and the HPMP are also identified in Section 3.7 to address potential impacts on unknown cultural resources that could be discovered during construction.

In accordance with the PA and HPMP procedures, USACE has consulted with Native Americans who attach religious or cultural significance to historic properties that may be affected by the proposed undertaking, i.e., Proposed Action. A detailed description of consultation with Native Americans is provided under *Native American Consultation* in Section 3.7. In accordance with the PA, USACE will consult with the SHPO, requesting concurrence on the delineation of the APE, on the adequacy of inventory methods, and on the findings of cultural resources investigations. Through implementation of the actions specified in the PA, the Proposed Action complies with Section 106 of the NHPA.

5.1.21 Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970

Federal, State, regional, and local government agencies, and others receiving Federal financial assistance for public programs and projects that require the acquisition of real property, must comply with the policies and provisions set forth in the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Uniform Act), as amended in 1987 (42 USC 4601 et seq.), and its implementing regulation, 49 CFR Part 24.

Relocation advisory services, moving costs reimbursement, replacement housing, and reimbursement for related expenses and rights of appeal are provided in the Uniform Act.

All or portions of some uninhabited parcels within the project footprint would need to be acquired for easement for project construction. All property acquisition would be made in compliance with the Uniform Act. The Proposed Action would comply with this law.

5.1.22 Wild and Scenic Rivers Act

The Wild and Scenic Rivers Act (16 USC 1217 et seq.) was enacted to preserve selected rivers or sections of rivers in their free-flowing condition to protect the quality of river waters and to fulfill other national conservation purposes. The Lower American River, below Nimbus Dam, has been included in the Federal Wild and Scenic Rivers system since 1981. The ARCF project is consistent with the land use management, flood risk reduction, and levee protection policies of the American River Parkway Plan, the management plan for the Wild and Scenic Rivers Act. These policies require that flood management agencies maintain and improve the existing flood control system, and manage vegetation in the Parkway to maintain the structural integrity and conveyance capacity of the flood control system, consistent with the need to provide a high level of flood risk reduction.

USACE will ensure that the Proposed Action complies with the Wild and Scenic Rivers Act by coordinating with the National Park Service to determine whether the Proposed Action would result in a direct and adverse effect on the Lower American River's free-flowing nature, water quality, anadromous fish Outstandingly Remarkable Value, or recreational Outstandingly Remarkable Value.

5.2 State Laws, Regulations, and Policies

5.2.1 Assembly Bill 1007: State Alternative Fuels Plan

Assembly Bill (AB) 1007 (Chapter 371, Statutes of 2005) required the California Energy Commission (CEC) to prepare a State plan to increase the use of alternative fuels in California. CEC prepared the State Alternative Fuels Plan in partnership with CARB and in consultation with other State, Federal, and local agencies. The plan presents strategies and actions California must take to increase the use of alternative non-petroleum fuels in a manner that minimizes the costs to California and maximizes the economic benefits of in-state production. The plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuel use, reduce GHG emissions, and increase in-state production of biofuels without causing a significant degradation to public health and environmental quality. The Proposed Action would comply with this law.

5.2.2 Assembly Bill 2076: Reducing Dependence on Petroleum

Pursuant to AB 2076 (Chapter 936, Statutes of 2000), CEC and the California Air Resources Board (CARB) prepared and adopted a joint agency report in 2003, *Reducing California's Petroleum Dependence.* Included in this report are recommendations to increase the use of alternative fuels to 20 percent of on-road transportation fuel use by 2020 and 30 percent by 2030, significantly increase the efficiency of motor vehicles, and reduce per capita VMT (CEC and CARB 2003). Further, in response to CEC's 2003 and 2005 *Integrated Energy Policy Reports*, Governor Davis directed CEC to take the lead in developing a long-term plan to increase alternative fuel use.

A performance-based goal of AB 2076 was to reduce petroleum demand to 15 percent below 2003 demand by 2030. The Proposed Action would comply with this law.

5.2.3 California Clean Air Act of 1988

Section 3.9 of this document discusses the effects of the Proposed Action on local and regional air quality. CARB is responsible for the development, implementation, and enforcement of California's motor vehicle pollution control program, GHG statewide emissions and goals, and development and enforcement of GHG emission reduction rules. Section 202(a) of the California Clean Air Act requires projects to determine whether emission sources and emission levels significantly affect air quality, based on Federal standards established by EPA and State standards set by CARB.

SMAQMD has local jurisdiction over the Project Area. The analysis in Section 3.9 shows that expected short-term project-related emissions would exceed local thresholds administered by SMAQMD, but would not exceed annual general conformity thresholds. Additionally, SMAQMD recommends that a lead CEQA agency consider a GHG emissions threshold of 1,100 metric tons/year; the Proposed Action would exceed this GHG emissions threshold. Additional BMPs would be incorporated to reduce GHG emissions during construction, to the maximum extent feasible.

In December 2018, the California Supreme Court issued its decision in *Sierra Club v. County of Fresno* (226 Cal.App.4th 704), also known as the "Friant Ranch decision," which requires a project's environmental documents to include a clear analysis of potential long term air quality health impacts from the project's anticipated emissions of air pollutants.

The Proposed Action was analyzed using a health risk analysis (HRA) to identify whether there would be adverse health impacts from emissions during construction. The results of the HRA show that the Proposed Action would be in compliance with the California Clean Air Act and the court's Friant Ranch holding.

5.2.4 California Environmental Quality Act of 1970

The CVFPB, as the non-Federal sponsor and CEQA lead agency, would undertake activities to ensure compliance with CEQA. CEQA requires full disclosure of the environmental effects, potential mitigation, and environmental compliance of the project. Certification of the Final Supplemental EIR by the CVFPB, adoption and incorporation of all feasible mitigation measures into the Proposed Action, and monitoring and reporting on implementation of the adopted mitigation measures would provide full compliance with the requirements of CEQA.

5.2.5 California Environmental Protection Agency

The Secretary of the California Environmental Protection Agency (Cal EPA) is directly responsible for coordinating the administration of the Unified Program. The Secretary certifies Unified Program Agencies. The Secretary has certified 83 Certified Unified Program Agencies (CUPAs) to date. These 83 CUPAs carry out the responsibilities previously handled by approximately 1,300 State and local agencies. In January 1996, Cal EPA adopted regulations implementing a Unified Hazardous Waste and Hazardous Materials Management Regulatory Program (Unified Program). The program has six elements: hazardous waste generators and hazardous waste on-site treatment; underground storage tanks; aboveground storage tanks; hazardous materials release response plans and inventories; risk management and prevention programs; and Unified Fire Code hazardous materials management plans and inventories. The plan is implemented at the local level. The CUPA is the local agency that is responsible for the implementation of the Unified Program. The Proposed Action would comply with this law.

5.2.6 California Endangered Species Act

The California Endangered Species Act (CESA) requires non-Federal agencies to consider the potential adverse effects on State-listed species. As discussed in Section 3.6 of this document, with implementation of mitigation measures, activities associated with the Proposed Action are not anticipated to adversely affect any State-listed species, so no further action is required to achieve compliance with CESA.

5.2.7 California Fish and Game Code Sections 3503 and 3513

Section 3503 of the California Fish and Game Code states that it is unlawful to take, possess, or needlessly destroy the nests of eggs of any bird. Section 3503.3 states that it is unlawful to take, possess, or destroy any raptors, including nests or eggs. With implementation of mitigation measures described in Section 3.6, activities associated with the proposed project are not anticipated to adversely affect nesting birds, raptors, or their eggs.

Section 3513 of the California Fish and Game Code states that it is unlawful to take or possess any migratory nongame bird, as designated in the Federal MBTA (16 USC 703

et seq.) before January 1, 2017; any additional migratory nongame bird designated in the MBTA after that date; or any part of a migratory nongame bird described in Fish and Game Code Section 3513, except as provided by rules and regulations adopted by the U.S. Secretary of the Interior under the MBTA, unless those rules or regulations are inconsistent with the Fish and Game Code. The Proposed Action would comply with this law.

5.2.8 California Health and Safety Code

Hazardous Waste Control Law; Hazardous Materials Transportation—CCR Title 22 and Hazardous Waste Control Law, Chapter 6.5

The California Department of Toxic Substances Control regulates the generation, transportation, treatment, storage, and disposal of hazardous waste under the Resource Conservation and Recovery Act and the California Hazardous Waste Control Law. Both laws impose "cradle-to-grave" regulatory systems for handling hazardous waste in a manner that protects human health and the environment.

Cal EPA has delegated some of its authority under the Hazardous Waste Control Law to county health departments and other CUPAs. The Office of the State Fire Marshal is responsible for ensuring implementation of the Hazardous Material Management Plans and the Hazardous Material Inventory Statement Programs. These programs tie in closely with the Hazardous Material Release Response Plan (Business Plan) Program. The Governor's Office of Emergency Services is responsible for providing technical assistance and evaluation of the Business Plan Program and the California Accidental Release Response Plan Program. The Proposed Action would comply with this law.

California Human Health Screening Levels and California Land Environmental Restoration and Reuse Act of 2001

The California Human Health Screening Levels (CHHSLs) were developed as a tool to assist in the evaluation of contaminated sites for potential adverse threats to human health. Preparation of the CHHSLs was required by the California Land Environmental Restoration and Reuse Act of 2001 (SB 32) (Chapter 764, Statutes of 2001; OEHHA, 2010). The CHHSLs are concentrations of 54 hazardous chemicals in soil or soil gas that Cal EPA considers to be below thresholds of concern for risks to human health. The CHHSLs were developed by the Office of Environmental Health Hazard Assessment and are contained in its report entitled *Human-Exposure-Based Screening Numbers Developed to Aid Estimation of Cleanup Costs for Contaminated Soil* (OEHHA and Cal EPA 2005). The thresholds of concern used to develop the CHHSLs are an excess lifetime cancer risk of 1 in 1 million and a hazard quotient of 1.0 for noncancer health effects. The CHHSLs were developed using standard exposure assumptions and chemical toxicity values published by EPA and Cal EPA. The CHHSLs can be used to screen sites for potential human health concerns where releases of hazardous chemicals to soils have occurred. Under most circumstances, the presence of a chemical in soil, soil gas, or indoor air at concentrations below the corresponding CHHSLs can be assumed to not pose a significant

health risk to people who may live (residential CHHSLs) or work (commercial/industrial CHHSLs) at the site. The Proposed Action would comply with this law.

Code of Federal Regulations Title 29 (OSHA) and California Code of Regulations Title 8 (Cal/OSHA)

The California Occupational Safety and Health Administration (Cal/OSHA) assumes primary responsibility for developing and enforcing workplace safety regulations in California. Because California has a Federally approved OSHA program, it is required to adopt regulations that are at least as stringent as those found in CFR Title 29. Cal/OSHA standards are generally more stringent than Federal regulations. Cal/OSHA regulations (8 CCR) for the use of hazardous materials in the workplace require employee safety training, safety equipment, accident and illness prevention programs, hazardous substance exposure warnings, and emergency action and fire prevention plan preparation. Cal/OSHA enforces hazard communication program regulations, which contain training and information requirements, including procedures for identifying and labeling hazardous substances, and communicating hazard information relating to hazardous substances and their handling. State laws, like Federal laws, include special provisions for hazard communication to employees in research laboratories, including training in chemical work practices. The Proposed Action would comply with this law.

5.2.9 Executive Order S-06-06

EO S-06-06, signed on April 25, 2006, establishes targets for the use and production of biofuels and biopower, and directs State agencies to work together to advance biomass programs in California while providing environmental protection and mitigation. The executive order establishes the following target to increase the production and use of bioenergy, including ethanol and biodiesel fuels made from renewable resources: produce a minimum of 20 percent of its biofuels within California by 2010, 40 percent by 2020, and 75 percent by 2050. EO S-06-06 also calls for the State to meet a target for use of biomass electricity. The 2011 Bioenergy Action Plan identifies those barriers and recommends actions to address them so that the State can meet its clean energy, waste reduction, and climate protection goals. The 2012 Bioenergy Action Plan updates the 2011 plan and provides a more detailed action plan to achieve the following goals:

- Increase environmentally and economically sustainable energy production from organic waste.
- Encourage development of diverse bioenergy technologies that increase local electricity generation, combined heat and power facilities, renewable natural gas, and renewable liquid fuels for transportation and fuel cell applications.
- Create jobs and stimulate economic development, especially in rural regions of the state.
- Reduce fire danger, improve air and water quality, and reduce waste.

As of 2018, 2.35 percent of the total electricity system power in California was derived from biomass (CEC 2019). The Proposed Action would comply with this law.

5.2.10 Porter-Cologne Water Quality Control Act of 1970

The Porter-Cologne Water Quality Control Act requires each of the state's nine regional water quality control boards (RWQCBs) to prepare and periodically update basin plans for water quality control. Basin plans offer an opportunity to protect wetlands through the establishment of water quality objectives. The jurisdiction of each RWQCB includes Federally protected waters as well as areas that meet the definition of "waters of the State," which are defined as any surface water or groundwater, including saline waters, within the State's boundaries.

With implementation of mitigation measures described in Section 3.4, the Proposed Action would have no effect on waters of the United States or waters of the State.

5.2.11 California Energy Action Plan

CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The current plan is the 2003 California Energy Action Plan (2008 update). The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero-emission vehicles and addressing their infrastructure needs; and encouragement of urban design that reduces vehicle miles traveled (VMT) and accommodates pedestrian and bicycle access. The Proposed Action would comply with this law.

5.2.12 Integrated Energy Policy Report

SB 1389 (Chapter 568, Statutes of 2002) required CEC to: "conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery and distribution, demand, and prices. The Energy Commission shall use these assessments and forecasts to develop energy policies that conserve resources, protect the environment, ensure energy reliability, enhance the state's economy, and protect public health and safety" (Public Resources Code Section 25301[a]). This work culminated in the Integrated Energy Policy Report (IEPR).

CEC adopts an IEPR every two years and an update every other year. The 2017 IEPR, the most recent IEPR, was adopted March 16, 2018. The 2017 IEPR summarizes priority energy issues currently facing California, outlining strategies and recommendations to

further the State's goal of ensuring reliable, affordable, and environmentally responsible energy sources. The report covers the following energy topics:

- Progress toward statewide renewable energy targets and issues facing future renewable development.
- Efforts to increase energy efficiency in existing and new buildings.
- Progress by utilities in achieving energy efficiency targets and potential.
- Improving coordination among the State's energy agencies.
- Streamlining power plant licensing processes.
- Results of preliminary forecasts of electricity, natural gas, and transportation fuel supply and demand.
- Future energy infrastructure needs.
- The need for research and development efforts to statewide energy policies.
- Issues facing California's nuclear power plants.

The Proposed Action would comply with this law.

5.2.13 Statewide Greenhouse Gas Emissions Targets and the Climate Change Scoping Plan

Reducing GHG emissions in California has been the focus of the State government for approximately two decades (State of California 2018). GHG emission targets established by the State Legislature include reducing statewide GHG emissions to 1990 levels by 2020 (AB 32, 2006) and reducing them to 40 percent below 1990 levels by 2030 (Senate Bill [SB] 32, 2016). Executive Order S-3-05 calls for statewide GHG emissions to be reduced to 80 percent below 1990 levels by 2050. Executive Order B-55-18 calls for California to achieve carbon neutrality by 2045 and achieve and maintain net negative GHG emissions thereafter. These targets are in line with the scientifically established levels needed in the United States to limit the rise in global temperature to no more than 2 degrees Celsius, the warming threshold at which major climate disruptions, such as super droughts and rising sea levels, are projected; these targets also pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius (United Nations 2015:3).

California's 2017 Climate Change Scoping Plan (2017 Scoping Plan), prepared by the California Air Resources Board (CARB), outlines the main strategies California will implement to achieve the legislated GHG emission target for 2030 and "substantially advance toward our 2050 climate goals" (CARB 2017:1, 3, 5, 20, 25–26). It identifies the reductions needed by each GHG emission sector (e.g., transportation, industry, electricity generation, agriculture, commercial and residential, pollutants with high global warming potential, and recycling and waste). CARB and other State agencies are currently

developing a Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal of EO B-55-18.

The State has also enacted more detailed legislation addressing GHG emissions associated with industrial sources, transportation, electricity generation, and energy consumption, as summarized below. The Proposed Action would comply with this law.

5.2.14 Warren-Alquist Act

The 1974 Warren-Alquist Act established the California Energy Resources Conservation and Development Commission, now known as the California Energy Commission (CEC). This law was enacted in response to the State Legislature's review of studies projecting an increase in statewide energy demand, which would potentially encourage the development of power plants in environmentally sensitive areas. The act introduced State policy for siting power plants to reduce potential environmental impacts, and additionally sought to reduce demand for these facilities by directing CEC to develop statewide energy conservation measures to reduce wasteful, inefficient, and unnecessary uses of energy. Conservation measures recommended establishing design standards for energy conservation in buildings that ultimately resulted in the creation of the Title 24 Building Energy Efficiency Standards (California Energy Code), which have been updated regularly and remain in effect today. The act additionally directed CEC to cooperate with the Governor's Office of Planning and Research, the California Natural Resources Agency, and other interested parties in ensuring that a discussion of wasteful, inefficient, and unnecessary consumption of energy is included in all environmental impact reports required on local projects. The Proposed Action would comply with this law.

CHAPTER 6
Coordination and Review of the Draft EIR

This Draft Supplemental EIR has been circulated for 45 days (April 13, 2022 to May 27, 2022) to agencies, organizations, and the public, including, but not limited, to: NMFS, USFWS, NPS, SHPO, CVRWQCB, State Lands Commission, Sacramento County, and the City of Sacramento. The Draft Supplemental EIR is posted on the CVFPB website and made available for viewing at local public libraries (if open), or provided by mail upon request. In addition, notice of a public meeting for the Draft Supplemental EIR will be posted on the CVFPB website. This project was coordinated with all the appropriate Federal, State, and local governmental agencies including USFWS, SHPO, and DWR prior to the publication of this document.

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CHAPTER 7
Report Preparers and Reviewers

This Supplemental EIR was prepared by Environmental Science Associates at the direction of the USACE Sacramento District and CVFPB, with assistance from SAFCA.

The following is a list of the individuals who prepared this Supplemental EIR, provided important background materials, or provided engineering clarifications for the project description.

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Taylor Spaulding	M.S., Biology; B.A., Biology; 9 years' experience	Fisheries; Special Status Species

Name	Qualifications and Experience	Participation
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Ascent Environmental

Name	Qualifications and Experience	Participation
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Christopher Lovett	Ph.D., Environmental Engineering; M.S., Environmental Engineering; B.S., Biochemistry and Molecular Biology; 12 years' experience	Air Quality; Greenhouse Gas Emissions and Energy
Honey Walters	M.S., Atmospheric Science; B.S., Environmental Science; 22 years' experience	Air Quality; Greenhouse Gas Emissions and Energy; Noise
Julia Wilson	B.A., Environmental Studies; 5 years' experience	Noise

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Appendix A

American River Watershed Common Features 2016 Project, American River Contract 3A and 4A Wildlife Habitat Survey Report

AMERICAN RIVER COMMON FEATURES 2016 PROJECT

Wildlife Habitat Survey Report

Prepared for
U.S. Army Corps of Engineers
Central Valley Flood Protection Board
Sacramento Area Flood Control Agency

February 2022

ESA

AMERICAN RIVER COMMON FEATURES 2016 PROJECT

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February 2022

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Acronyms and Other Abbreviations

Acronym or Abbreviation	Definition
ARCF GRR EIS/EIR	*American River Common Features General Reevaluation Report, Final Environmental Impact Statement/Environmental Impact Report*
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CNDDB	California Natural Diversity Database
FESA	Federal Endangered Species Act
LAR	Lower American River
MBTA	Migratory Bird Treaty Act
NEPA	National Environmental Policy Act
Project	American River Common Features 2016 Project
RM	river mile
USACE	U.S. Army Corps of Engineers
USC	U.S. Code
USFWS	U.S. Fish and Wildlife Service
VELB	valley elderberry longhorn beetle

EXECUTIVE SUMMARY

In an effort to reduce flood risk in the Sacramento Region, the U.S. Army Corps of Engineers (USACE), the Central Valley Flood Protection Board, and the Sacramento Area Flood Control Agency have partnered to complete the American River Common Features 2016 Project (Project). In July 2018, Congress granted the USACE construction funding to complete this urgent flood control project under the Bipartisan Budget Act of 2018.

Most of the Project's environmental effects were addressed in the Revised 2016 American River Common Features General Reevaluation Report (ARCF GRR), Final Environmental Impact Statement/Environmental Impact Report (EIS/EIR) (USACE 2016). This report was prepared to support a supplemental National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) analysis by characterizing terrestrial wildlife species and the natural communities along the Lower American River (LAR). The Contract 3A site (Site 1-1) covers approximately 30 acres from roughly river mile (RM) 3.8 to 4.2 and Contract 4A site (Site 1-17B), encompasses approximately 150-acres and is set back from the river and parallels the levee. The erosion protection and work areas (staging and access) had not been defined for Contract 4A, so a much larger area was surveyed to accommodate future adjustments to the footprints of Contracts 3A and 4A. This reach is referred to as Subreach 1 and is one of four established subreaches along the LAR for the Project. It is important to note that Subreach 1 is within the area identified in the GRR as Reach A for both the American River North (ARN) and American River South (ARS) study basins. The survey area encompasses only that portion of Subreach 1 that has been identified as having an unacceptable risk of levee failure due to erosion. Erosion protection measures have been proposed for these sites to improve the levees. The survey area includes the two sites, their associated (or potential) work areas, staging areas, access routes, and associated buffers. Two buffer areas were established for the survey: a 100-foot buffer where the survey area abuts residential and commercial neighborhoods as well as railroad properties, and a 500-foot buffer in parkway areas along the Lower American River where the potential for sensitive species to be present is higher.

Although the constructed levee system and surrounding infrastructure have modified most of the survey area's native vegetation types and habitats, remnant stands of native vegetation are present. Natural communities present in the survey area include riverine (open water), annual grassland, mixed oak woodland, upland scrub, riparian scrub, and riparian woodland. Several sensitive natural communities (present in the aforementioned communities) also occur within the survey area. The natural communities were cross referenced with the California Wildlife Habitat Relationships System, which describes predominant wildlife species observed in these communities. Non-native communities and disturbed/developed areas that do not correspond to natural communities are also present in the survey area. Although these areas generally provide

fewer habitat opportunities for wildlife, they may still provide cover and forage for some species.

One California species of special concern, a migrant yellow warbler, was observed during field surveys in the survey area. In addition, although it was not observed, the Federally listed threatened valley elderberry longhorn beetle was assumed present based on the occurrence of its host plant and exit holes indicating its presence. Several other sensitive species have high potential to occur in the survey area, including nesting migratory birds and raptors and protected bat species.

CHAPTER 1
Introduction

1.1 Background and Purpose

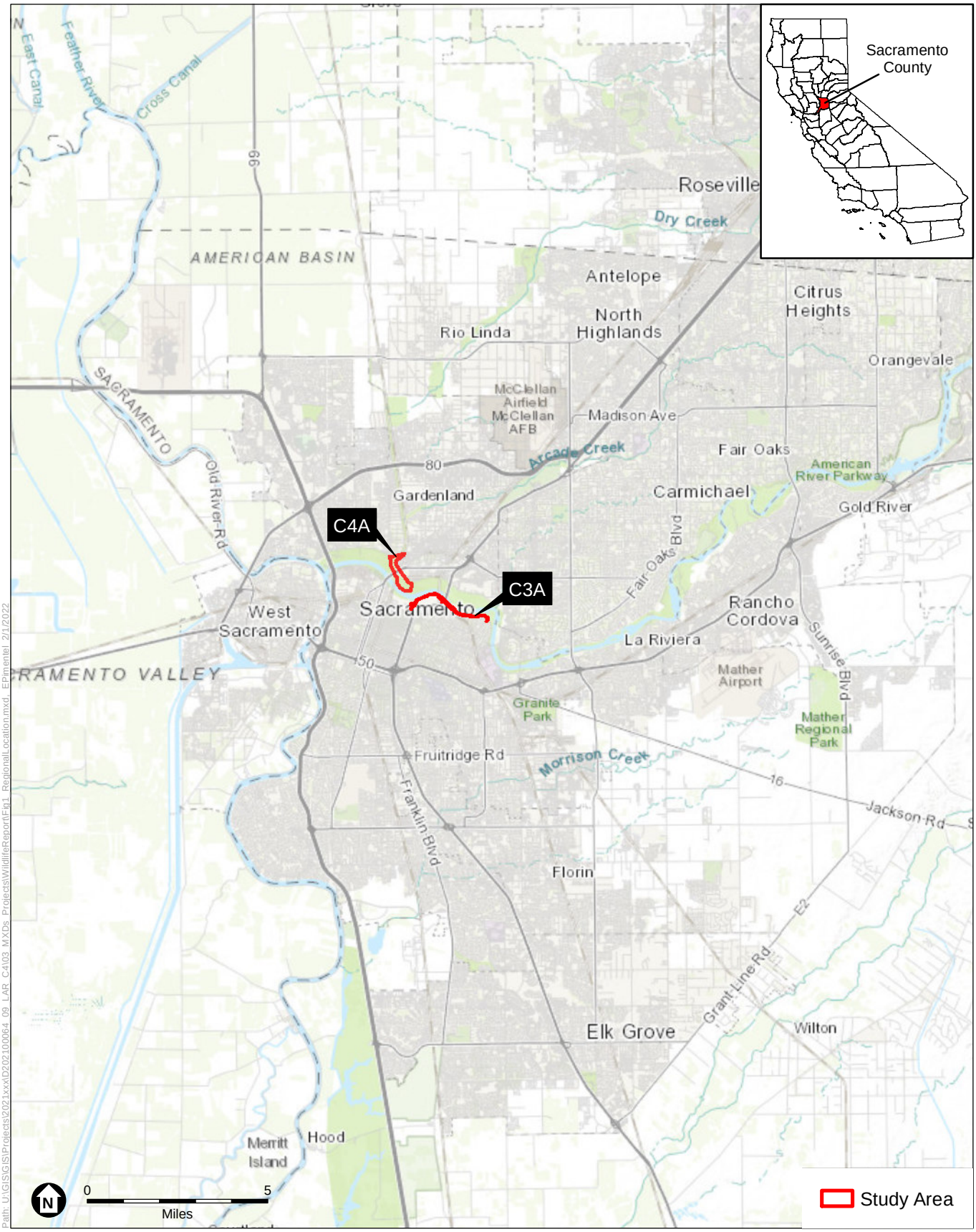
The U.S. Army Corps of Engineers (USACE), the Central Valley Flood Protection Board, and the Sacramento Area Flood Control Agency are partnering to complete the American River Common Features 2016 Project (Project) to reduce flood risk for the Sacramento region. This report was prepared to support a supplemental environmental analysis of planned levee improvements to address erosion within Subreach 1, one of the four subreaches of the leveed reach of the American River that have been established for the purposes of analysis for this Project. Although most of the Project's environmental effects were addressed in the 2016 *American River Common Features General Reevaluation Report, Final Environmental Impact Statement/Environmental Impact Report* (ARCF GRR EIS/EIR), a supplemental environmental analysis under the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) is underway to address the environmental effects of changed circumstances and new information regarding the Project that were not covered in the ARCF GRR EIS/EIR.

Subreach 1 is located along the Lower American River (LAR) and extends from the mouth of the river at its confluence with the Sacramento River to river mile (RM) 5.2. Within Subreach 1, two sites requiring levee modification were identified: Site 1-1 and Site 1-17B. Subreach 1 is within the area identified in the GRR as Reach A for both the American River North (ARN) and American River South (ARS) study basins.

The intent and scope of this report are to characterize biological resources present within the erosion protection areas, their associated work areas, staging areas, access routes, and associated buffers. Two buffer areas were established for the survey: a 100-foot buffer where the survey area abuts residential and commercial neighborhoods and inaccessible railroad property, and a 500-foot buffer in parkway areas along the Lower American River where the potential for sensitive species to be present is higher. The surveys focused on terrestrial wildlife and natural communities that could provide habitat for these species.

1.2 Property Location

The survey areas for American River Contracts 3A and 4A are located in Subreach 1 of the LAR, Sacramento, between the mouth of the LAR at the confluence of the Sacramento River (RM 0) and Paradise Bend (RM 5.2) (**Figure 1**). The survey areas are bordered on the north by commercial properties, including Cal Expo and railroad property and residential neighborhoods on the south (**Figure 2**).



SOURCE: Esri, 2021; ESA, 2022

American River Common Features Contracts 3A and 4A

Figure 1
Regional Location

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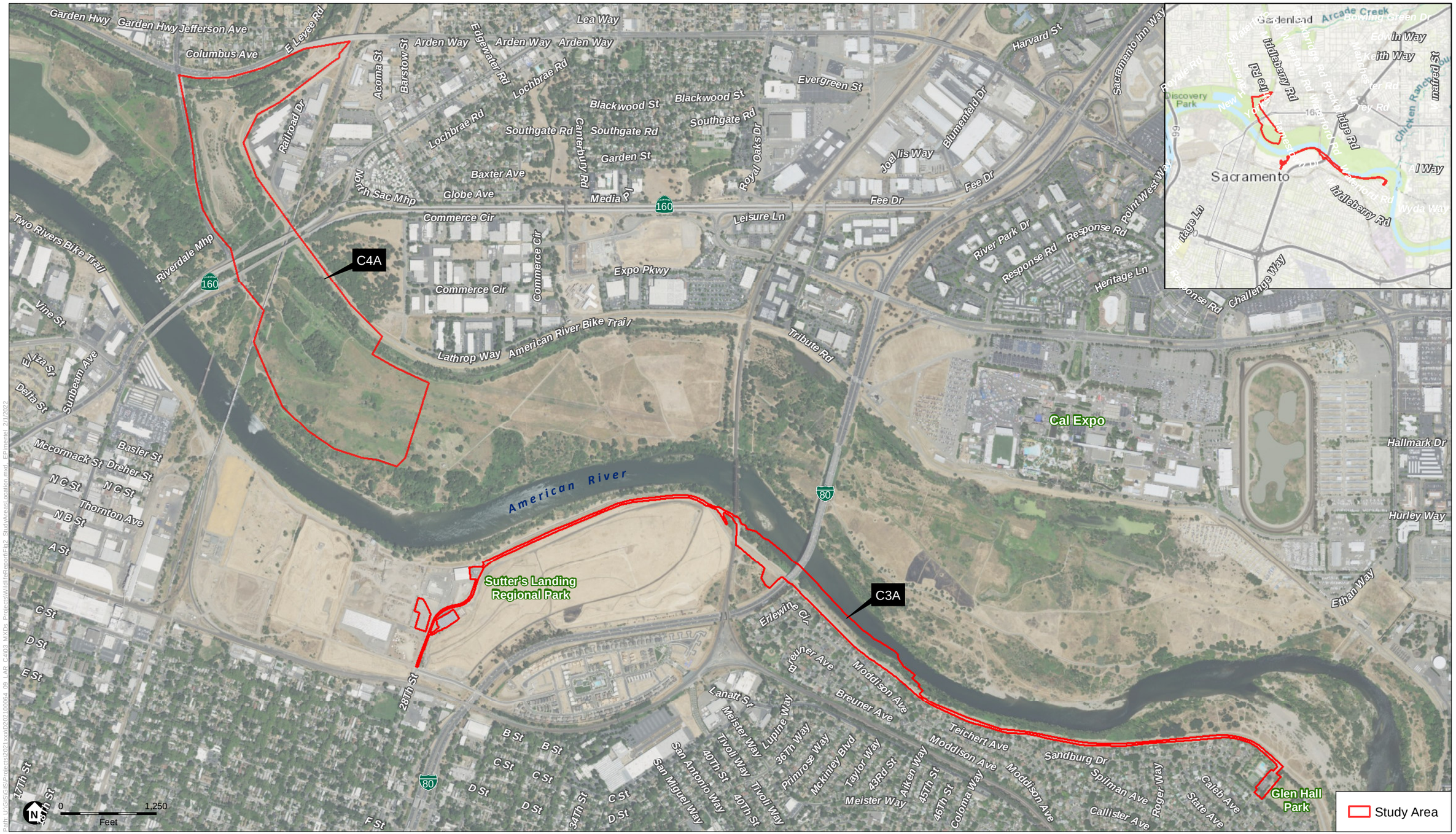

SOURCE: Esri, 2021; USDA, 2018; ESA, 2022

American River Common Features Contracts 3A and 4A

Figure 2
Study Area

ESA

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The Contract 3A site is located in Township 9 north, Range 5 east, Sections 32 and 33, and Township 8 north, Range 5 east, Sections 3 and 4 and the Contract 4A site falls within Township 9 north, Range 5 east, Sections 30 and 31 of the Sacramento East, California U.S. Geological Survey (USGS) 7.5-minute series quadrangle.

The survey area includes two sites requiring levee modification, along with their associated staging areas and access roads, approximately between RM 2.8 and RM 5.4 (Figure 2):

- The site for Contract 3A (Site 1-1) is located on the left bank of the LAR between LAR RM 3.8 and 4.2 from downstream of the Interstate 80 Business (I-80 or Capital City Freeway) to underneath and upstream of the Capital City Freeway.
- The site for Contract 4A (*Site 1-17B*) is located on the right bank and runs parallel to the levee from Del Paso Road to approximately 1,100 feet to the southeast crossing under the railroad bridge and Highway 160 (North Sacramento Freeway). In this section of the LAR, the levee is set back from the channel during summer flows by approximately 1,800 feet. It is situated approximately between RM 1.9 and 2.2. The design for Contract 4A has not been completed, so the survey area was expanded to capture a much larger area to provide flexibility for access and staging areas.

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CHAPTER 2
Methods

2.1 Survey Area

In this report, the term "survey area" refers to the area where direct, indirect, or cumulative effects on biological resources could occur as a result of the proposed levee work. This area includes the two levee erosion protection sites and the associated staging areas and access roads. The footprint of proposed activities was generally the starting point for defining the biological survey area; however, in practical terms, biological resources have varied sensitivity to disturbance and many species need a somewhat larger survey area. The survey area therefore includes the footprint of the proposed facilities, plus a buffer ranging from approximately 100 feet to 500 feet, depending on habitat quality and access (Figure 2).

2.2 Survey Methodology

2.2.1 Survey Dates and Survey Personnel

ESA wildlife biologists Kelly Bayne and Christy Dawson conducted reconnaissance-level wildlife surveys and habitat assessments of the survey areas on November 12, 2021, and December 1, 2021. The survey was conducted to observe and characterize vegetation communities, previously mapped in 2018, to assess habitat quality, and to determine the potential for common and special-status wildlife species to occur.

In addition to this general survey, focused surveys for valley elderberry longhorn beetle (VELB) were conducted by ESA biologists for Contract 3A between September 20 and October 10, 2019, and September 1, 2021 and for Contract 4A on September 22, 2021. These surveys were performed in accordance with methods described in U.S. Fish and Wildlife Service (USFWS) publications for VELB (USFWS 2017).

2.2.2 Natural Communities and Vegetation Surveys

Vegetation communities were surveyed in August 2018 to map natural and sensitive communities to the alliance level as described in the *Manual of California Vegetation, second edition* (Sawyer et al. 2009). The vegetation community mapping was confirmed to still be accurate during the various site visits in 2021. Protocol-level botanical surveys were not conducted for the survey area, but will be conducted in spring and summer 2022, when special-status plants with potential to occur in the survey area will be flowering and will be reported separately from this report.

2.2.3 Wildlife Surveys

The wildlife surveys cataloged any common or special-status wildlife species observed in the survey area and determined the potential for the presence of suitable habitat for special-status wildlife species. The wildlife surveys were performed by walking meandering transects over the entire survey area to identify features that support wildlife species. A record was kept of all wildlife species encountered. Special-status species were mapped, and global positioning system coordinates were collected for each occurrence.

2.3 Review of Background Information

Before conducting reconnaissance-level vegetation and wildlife surveys, ESA reviewed publicly available and subscription-based data on biological resources. The field surveys provided partial confirmation of the accuracy of publicly available data. The following data sources assisted in this analysis:

- Topographic maps (Sacramento East and surrounding eight 7.5-minute quadrangles)
- Historic and current aerial imagery
- California Wildlife Habitat Relationships database
- The California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) for the quadrangles indicated below
- A USFWS species list for the survey area in Figure 2 generated using the online Information for Planning and Consultation (IPaC) database

Several wildlife species known to occur in or in the vicinity of the survey area are protected under Federal and/or State endangered species laws or have been designated as species of special concern by CDFW. In addition, Section 15380(b) of the State CEQA Guidelines provides a definition of rare, endangered, or threatened species that are not included in any listing. Species recognized under these terms are referred to collectively as “special-status species.”

A list of special-status wildlife species with potential to occur in or in the vicinity of the survey area was compiled from a nine-quadrangle search of the CNDDB (CDFW 2021), a search of the USFWS Information for Planning and Consultation endangered species database (USFWS 2021), and biological literature of the region. The search encompassed the following 7.5-minute U.S. Geological Survey topographic quadrangles:

Taylor Monument	Rio Linda	Citrus Heights
Sacramento West	Sacramento East	Carmichael
Clarksburg	Florin	Elk Grove

Each species on the list was assessed individually based on its habitat requirements and distribution relative to the location and vegetation communities that occur in and around the survey area. Those species with a moderate or high potential to occur in the survey area are described in Chapter 3 in greater detail. If habitat was not present or the survey area is outside of the known range of the species, the species was assumed absent and excluded from the list.

The "Potential to Occur" categories are defined as follows:

- **Low**: The survey area provides only limited and low-quality habitat for a particular species. In addition, the known range for a particular species may be outside of the survey area.
- **Moderate**: The survey area and/or immediate vicinity provides suitable habitat for a particular species.
- **High**: The survey area and/or immediate vicinity provide ideal habitat conditions for a particular species and/or known populations occur in the survey areas or within its immediate vicinity.
- **Present:** The species was observed during the biological surveys within the survey area.

In addition to the above resources, background information for the Project can be found in the ARCF GRR Final EIS/EIR (USACE 2016), which was reviewed during preparation of this report.

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CHAPTER 3
Environmental Setting

3.1 Natural Communities and Associated Wildlife Habitats

Natural communities are assemblages of plant species that occur together in the same area and are defined by species composition and relative abundance. The natural communities described here are largely consistent with the CDFW natural communities, which comply with the National Vegetation Classification Standard. These communities were cross walked from previously mapped alliances, in accordance with the membership rules described in the *Manual of California Vegetation, second edition* (Sawyer et al. 2009). A crosswalk table is presented in **Appendix A**.

Botanical taxonomy and nomenclature conform to *The Jepson Manual: Vascular Plants of California, second edition* (Baldwin et al. 2012), as revised by the Jepson eFlora (Jepson Flora Project 2019). Common names of plant species are derived from the Jepson Manual or Calflora (2019). Plant communities generally correlate with wildlife habitat types; wildlife habitats were classified and evaluated using *A Guide to Wildlife Habitats of California* (Mayer and Laudenslayer 1988).

Natural communities present in the survey area include open water, California annual grassland, mixed oak woodland, upland scrub, riparian scrub, riparian woodland, and fresh emergent wetlands all of which support various life stages for a wide array of wildlife. Non-native communities, invasive plants, and disturbed/developed areas that do not correspond to natural communities also are present in the survey area. Although these areas generally provide fewer habitat opportunities for wildlife, they may still provide cover and forage. **Figures 3a** and **3b** identify the distribution of native and non-native communities in the survey area.

Appendix B, Tables B-1 and B-2, respectively, present lists of wildlife and plant species that were observed during focused and reconnaissance-level surveys. A complete plant list will be developed during botanical surveys.

3.1.1 California Annual Grassland

Grasslands can be found throughout the survey area, typically in upland areas, and consist mainly of non-native grasses and forbs.[1] Common grass species observed in this community include wild oat (*Avena barbata*), bromes (*Bromus diandrus, B. hordeaceus*), foxtail barley (*Hordeum*

[1] Annual grasslands were previously called “ruderal herbaceous” in the 2016 ARCF GRR EIS/EIR.

murinum), rye grass (*Festuca perennis*), Bermuda grass (*Cynodon dactylon*), and Johnson grass (*Sorghum halepense*). Pockets of native grasses, such as beardless wild rye (*Elymus triticoides*), occur sporadically throughout the grasslands in the survey area as well.

An assemblage of native and non-native forbs also occurs in these grasslands. Among the many common non-native forbs observed are spring vetch (*Vicia sativa ssp. sativa*), cranes bill (*Geranium dissectum*), Italian thistle (*Carduus pycnocephalus*), yellow star thistle (*Centaurea solstitialis*), prickly lettuce (*Lactuca serriola*), poison hemlock (*Conium maculatum*), wild radish (*Raphanus sativus*), bull thistle (*Cirsium vulgare*), rose clover (*Trifolium hirtum*), and white sweet clover (*Melilotus indicus*). Some common native forbs observed include Canada horseweed (*Erigeron canadensis*), fringed willowherb (*Epilobium ciliatum*), ragweed (*Ambrosia psilostachya*), and turkey-mullein (*Croton setiger*).

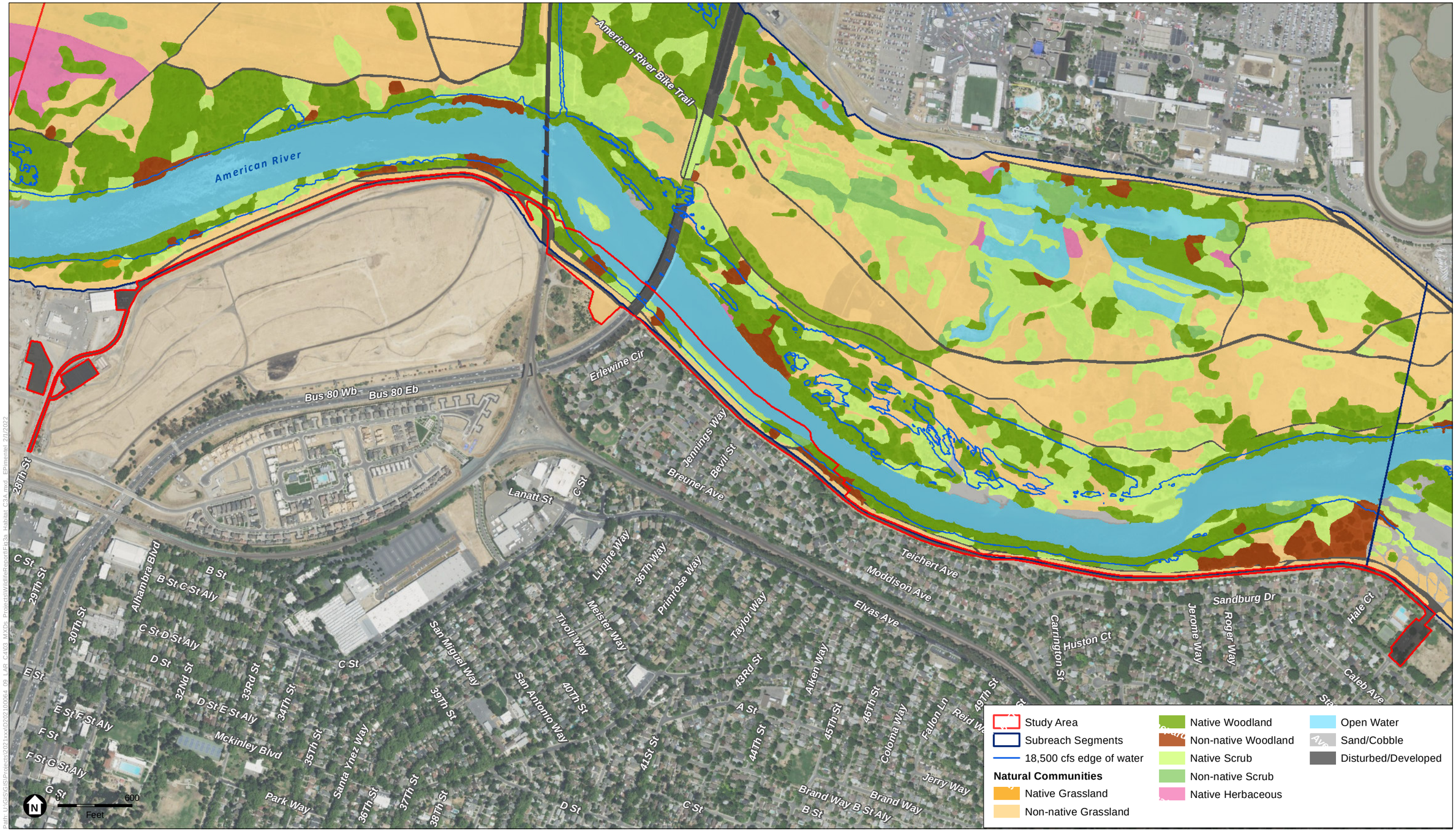
The species composition and structure of grasslands in the survey area vary. Some areas are relatively homogeneous, dominated by one or two species such as yellow star thistle and Bermuda grass, and other areas are much more heterogeneous, with several species occurring. Also, although some annual grasslands occur on levee slopes, most of these areas are mowed regularly and thus may provide fewer habitat opportunities for some wildlife species than unmowed grassland areas.

Wildlife Habitat Relationship with California Grassland

Annual grassland provides little cover for most wildlife, yet numerous species forage and several species breed in this habitat type. Grasslands attract bees and other insects that rely on flowering grassland species. They also attract reptiles and amphibians, such as western fence lizard (*Sceloporus occidentalis*), common garter snake (*Thamnophis sirtalis*), and gopher snake (*Pituophis melanoleucus*); and birds, including California quail (*Callipepla californica*), western bluebird (*Sialia mexicana*), lesser goldfinch *(Carduelis psaltria*), and barn swallow (*Hirundo rustica*).

Common small mammals expected to occur in grasslands in the survey area include western harvest mouse (*Reithrodontomys megalotis*), deer mouse (*Mus musculus*), California vole (*Microtus californicus*), black-tailed jackrabbit (*Lepus californicus*), and Botta's pocket gopher (*Thomomys bottae*). Small rodents, reptiles, and invertebrates attract raptors (birds of prey) including red-tailed hawk (*Buteo jamaicensis*), red-shouldered hawk (*Accipiter striatus*), and American kestrel (*Falco sparverius*), and special-status birds such as white-tailed kite (*Elanus leucurus*), burrowing owl (*Athene cunicularia*), and Swainson's hawk (*Buteo swainsoni*).

Non-native grasslands are important foraging grounds for aerial and ground-foraging insect eaters such as *Myotis* bat species and pallid bats (*Antrozous pallidus*). Larger mammals such as black-tailed deer (*Odocoileus hemionus*) and coyote (*Canis latrans*) were observed moving through grasslands along the American River during the biological resources surveys conducted in 2018 and 2019.



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SOURCE: NHC, 2021; USACE, 2021; ESA, 2022

American River Common Features Contracts 3A and 4A

Figure 3a
Natural Communities of the Lower American River Contract 3A Project Site

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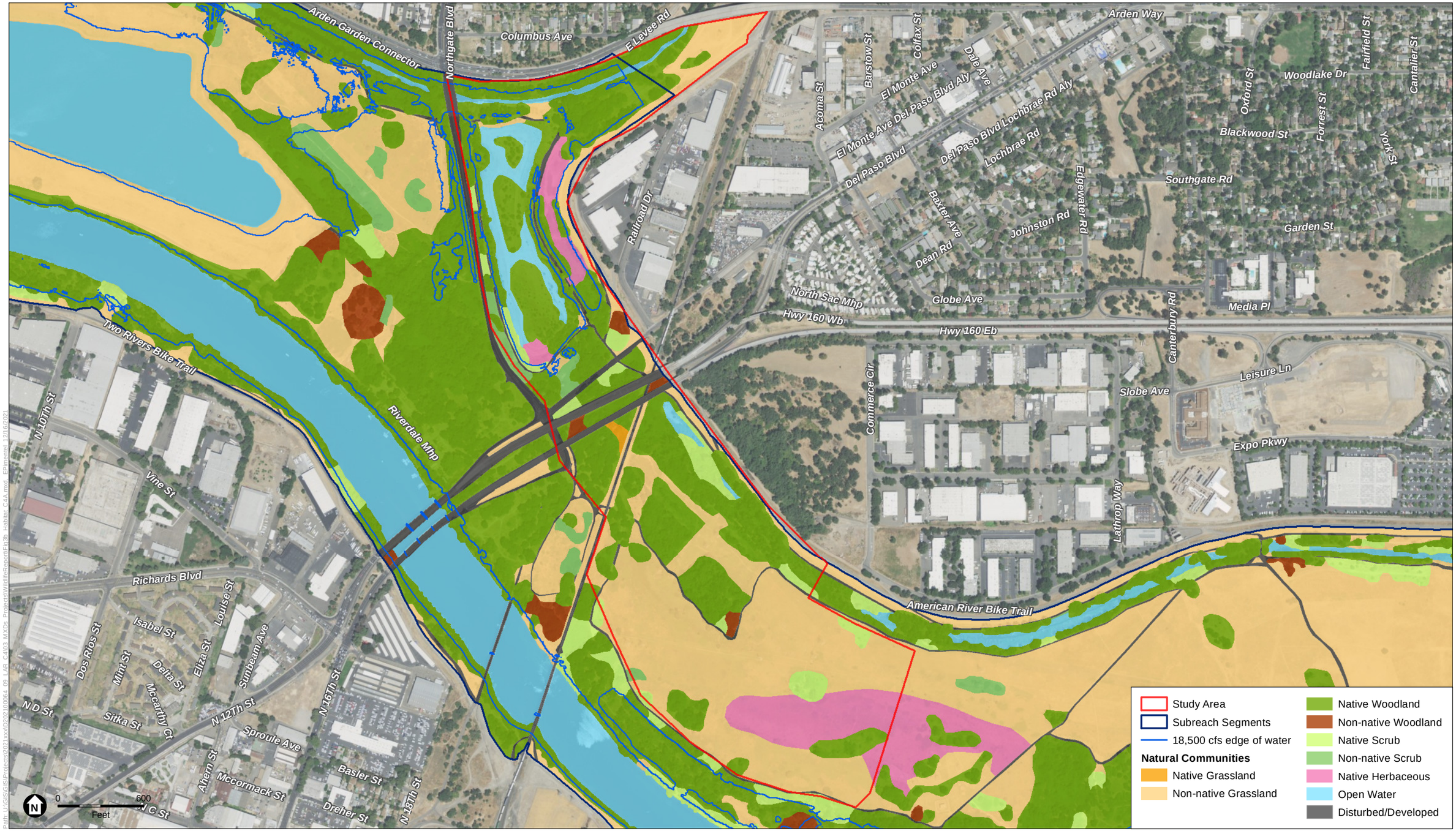

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SOURCE: NHC, 2021; USACE, 2021; ESA, 2021

American River Common Features Contracts 3A and 4A

Figure 3b
Natural Communities of the Lower American River
Contract 4A Project Site

ESA

3.1.2 Mixed Oak Woodland and Upland Scrub

Oak Woodland

Oak woodlands within the survey area are dominated by coast live oak (*Quercus agrifolia*), valley oak (*Q. lobata*), and interior live oak (*Q. wislizeni*); Northern California black walnut (*Juglans hindsii*) and California bay (*Umbellularia californica*) are less frequent contributors to the tree canopy.

Oak woodlands in the survey area support a variety of understory plant species and vegetative structures. When no shrub layer is present, an annual grassland is the dominant understory and includes the common species described above for the California annual grassland community description. When oak woodlands support understory shrubs, common native shrubs observed include California rose (*Rosa californica*), California blackberry (*Rubus ursinus*), blue elderberry (*Sambucus nigra* ssp. *caerulea*), and coyote brush (*Baccharis pilularis* ssp. *consanguinea*).

Oak woodland is considered a sensitive natural community by CDFW and includes Great Valley oak/oak riparian forest.

Upland Scrub

Upland scrub habitat in the survey area consists of areas dominated by native and non-native shrubs that have no tree cover and contain the common herbaceous species described above for California annual grassland. Common native shrub species observed are coyote brush, blue elderberry, California rose, California blackberry, western redbud (*Cercis occidentalis*). California grape (*Vitis californica*), a vine, also commonly occurs.

Wildlife Habitat Relationships with Mixed Oak Woodland and Upland Scrub

Animals within oak woodland habitat in the survey area include those heavily reliant on acorns, such as the acorn disseminators California scrub jay (*Aphelocoma californica*), acorn woodpecker (*Melanerpes formicivorus*), and western gray squirrel (*Sciurus griseus*). Wild turkey (*Meleagris gallopavo*), California quail, and black-tailed deer use acorns as a major food source. Deer also use the foliage of several hardwoods.

Oak titmouse (*Baeolophus inornatus*), dark-eyed junco (*Junco hyemalis*), ash-throated flycatcher (*Myiarchus tuberculifer*), northern flicker (*Colaptes auratus*), lesser goldfinch (*Carduelis psaltria*), and great horned owl (*Bubo virginianus*) nest in woodland habitat. Cavity nesters include western bluebird, and ash-throated flycatcher. Special-status birds such as Cooper's hawk (*Accipiter cooperii*) and sharp-shinned hawk (*A. striatus*) are known to nest in these woodlands. The pallid bat, also a special-status species, may inhabit these woodlands as well.

Amphibians and reptiles can be found on the forest floor where moisture is retained under fallen wood and in tree crevices; among these species are California toad (*Anaxyrus boreas halophilus*) and Sierran treefrog (*Pseudacris sierra*). Reptiles include western fence lizard, southern alligator

lizard (*Elgaria multicarinata multicarinata*), ringneck snake (*Diadophis punctatus*), gopher snake, western rattlesnake (*Crotalus viridis helleri*), and California king snake (*Lampropeltis zonata*). Many of these species will also use adjacent upland scrub areas for foraging or cover.

3.1.3 Valley Foothill Riparian

Riparian Scrub

Riparian scrub habitat in the survey area consists of shrub-dominated areas that are subject to hydrologic influence from the LAR. These areas are dominated by sandbar willow (*Salix exigua*), arroyo willow (*S. lasiolepis*), common button bush (*Cephalanthus occidentalis*), California rose, California blackberry, California wild grape, blue elderberry, and Himalayan blackberry. Areas that experience high flows typically do not support herb species and cobbles tend to be the dominant ground cover. Areas that experience slower flows support a variety of herb species including mugwort (*Artemisia douglasiana*), marsh brittlegrass (*Setaria parviflora*), Santa Barbara sedge (*Carex barbarae*), and beardless wild rye.

Riparian Woodland

Riparian woodlands in the survey area are tree-dominated areas that are subject to frequent hydrologic influence from the LAR. These areas are dominated by Fremont cottonwood (*Populus fremontii*), Goodding's willow (*Salix gooddingii*), box elder (*Acer negundo*), and California and non-native sycamore (*Platanus racemosa; Platanus* sp.). Oregon ash (*Fraxinus latifolia*), valley and live oak, and black locust as less frequent contributors to the tree canopy. Riparian woodlands support a variety of shrubs and herbs similar to those described above for the riparian scrub community.

Wildlife Habitat Relationships with Valley Foothill Riparian

Many wildlife species are dependent on riparian habitats for water, food, and cover. Several species of raptors—red-shouldered hawk, Cooper's hawk, great horned owl, and the State-listed Swainson's hawk—build their nests in the crowns of cottonwood, valley oak, and other large trees that grow on the landside and waterside of the levees in the survey area. Natural cavities and woodpecker holes provide nesting sites for cavity-nesting species, including wood duck (*Aix sponsa*), common merganser (*Mergus merganser*), American kestrel, tree swallow (*Tachycineta bicolor*), western bluebird, and western screech owl (*Megascops kennicottii*).

Riparian scrub supports large numbers of insects and attracts passerine birds, including several species of flycatchers, warblers, and hummingbirds. In addition, a number of Federally listed species rely on riparian corridors, including VELB and the western yellow-billed cuckoo. Riparian habitat is listed as a sensitive natural community by the CNDDB (CDFW 2021) and includes Great Valley cottonwood riparian forest and Northern California black walnut.

3.1.4 Fresh Emergent Wetland

Emergent wetland is dominated by perennial aquatic emergent vegetation and annual hydrophytic forbs. Areas of emergent wetland in Contract 4A are fed by either flooding from the American River, or from runoff from surrounding uplands for the small emergent wetlands amongst the mine tailings. Vegetation is typically dominated by spikerush (*Eleocharis macrostachya*), rushes (*Juncus* spp.), or vervain (*Verbena bonariensis*).

Wildlife Habitat Relationships with Fresh Emergent Wetland

Fresh emergent wetlands provide food, cover, and water for numerous birds, amphibians, reptiles and mammals and is one of the most productive wildlife habitats in California. Common bird species that feed in fresh emergent wetlands include various ducks, geese, and wading birds including mallards, Canada geese, herons and egrets, forage in the water and along the shallow edges. Many flycatchers, such as black phoebes (*Sayornis nigricans*), swallows, and other insectivores also utilize fresh emergent wetlands to forage on insects attracted to the water. Several birds, such as the red-winged blackbird (*Agelaius phoeniceus*), make use of the tall aquatic vegetation to hide their nests over the water, which protects them from ground predators. Larger emergent wetlands provide safety for resting waterfowl.

In addition to birds, amphibians, such as the Sierran tree frog and reptiles like the western pond turtle, a species of special concern, live within and around the margins of wetlands, which provide moist habitat, food, and cover. Deer, coyote, and various smaller mammals access emergent wetlands for a year-round water source.

3.1.5 Riverine

Riverine habitat includes inundated areas including the LAR. Areas in Contract 3A did not support much submerged aquatic vegetation, but water fern (*Azolla fillicoloides*) was observed.

Shaded Riverine Aquatic Habitat

Shaded riverine aquatic habitat is defined as the nearshore aquatic area located at the interface between a river and adjacent woody riparian habitat. This valuable cover type has two principal attributes: (1) The adjacent bank is composed of natural, eroding substrates supporting riparian vegetation that either overhangs or protrudes into the water; and (2) the water contains variable amounts of woody debris, such as leaves, logs, branches, and roots, as well as variable depths, velocities, and currents. Shaded riverine aquatic habitat is present throughout the C3A survey area along the riverbank and is contained within the other identified habitat types in these areas.

Wildlife Habitat Relationships with Riverine

Many bird species use open waters for resting, hunting, and escape cover. Common species include gulls, and waterfowl. Shorelines provide hunting grounds for wading birds such as herons and egrets, and for kingfisher, waterfowl, and shorebirds. Flycatchers, swallows, and other insectivorous birds catch their prey over water. Mammal species that occur in this habitat type include river otter (*Lontra canadensis*) and beaver (*Castor canadensis*).

3.1.6 Disturbed/Developed

The levee system has substantially altered the habitat within the LAR parkway and surrounding areas are urbanized. In addition to the levee system, existing facilities in the survey area include bike paths, bridges and railways (Figure 3a and b). Staging and access areas are located mostly in existing parking areas, open parks, and on existing gravel or paved roads and paths. Disturbed portions of the survey area include bare ground or manicured areas that are subject to continued disturbance.

Invasive Plant Species

In the survey area, invasive non-native plant species occur in all plant communities, but most commonly with and adjacent to annual grasslands. Areas dominated by non-native vegetation are generally associated with recent human disturbance and include dredged mine tailings, maintained levee slopes, landscaped areas, and areas subject to frequent flood inundation or scour. Non-native weeds dominate some areas, especially along the side slopes of the levees. To a lesser degree, invasive plants are also found in other plant communities such as riparian and oak woodland.

Non-native Woodland

Several locations in the survey area are dominated by non-native trees. These single-species tree stands typically consist of black locust (*Robinia pseudoacacia*) but can include tree of heaven (*Ailanthus altissima*), American elm (*Ulmus americana*), and blue gum (*Eucalyptus globulus*). With the exception of black locust stands, non-native woodlands in the survey area typically do not support a shrub understory and are dominated by the common herbaceous species described above for California annual grassland. Some black locust stands support blue elderberry shrubs in the understory.

Wildlife Habitat Relationships with Disturbed/Developed

The survey area outside of the LAR parkway combines urban residential zones featuring lawns, shade trees, and ornamental plants with areas of mature vegetation as encountered in the parks and in residential back yards along the bike paths. Although these areas are disturbed, they can still support wildlife, and the more mature areas can sometimes approximate the natural environment. Bird species that may use these habitat types include scrub jay, Northern mockingbird (*Mimus polyglottos*), house finch (*Carpodacus mexicanus*), California quail, and western bluebird. Common mammals include black-tailed deer, raccoon (*Procyon lotor*), and opossum (*Didelphis virginiana*). Gopher snake and western fence lizard also occur in this habitat type.

Wildlife also use manmade structures such as the railroad bridges in both survey areas, the Capital City Freeway (Interstate 80) bridge in C3A, and Highway 160 bridge in C4A, which had remnant of swallow nests. These all could be used for a day roost for unidentified bat species (such as pallid bat and/or myotis bats [*Myotis* sp.]), but no signs were observed during field surveys. The potential also exists for nesting birds to occur in the trees located in the parking lots that would be used for staging areas.

3.2 Special-Status Species

Several wildlife species known to occur in or in the vicinity of the survey area are protected under Federal and/or State endangered species laws or have been designated as species of special concern by CDFW. **Table 1** provides a comprehensive list of special-status wildlife species that were considered in the analysis. See **Figure 4** for a map of CNDDB special-status species occurrences within five miles of the survey area.

The analysis below includes consideration of special-status species categorized as present, or with a medium or high potential to occur.

3.2.1 Federally Listed and State-Listed Wildlife Species

Valley Elderberry Longhorn Beetle

The valley elderberry longhorn beetle is listed as threatened and critical habitat was designated on August 8, 1980. Suitable habitat for the VELB is typically defined as live elderberry (*Sambucus* spp.) stems measuring at least one inch in diameter at ground level. Recently, the range of VELB was reduced from 3000 feet in elevation as stated in the 1999 Guidelines down to 500 feet in the 2017 Framework. This reduction was due to the realization that the female VELB is indistinguishable from the California elderberry longhorn beetle in the field, as are the exit holes of the two species, and the protocol now only relies on visual verification of the male VELB to verify sightings. Only 10 records in three locations (Merced, Yolo, and Sacramento Counties) were known at the time of listing. However, after further investigation, VELB was found to have a range that extended from Shasta County to Fresno County.

VELB is completely dependent on its host plant, the elderberry, which is a common component of the riparian forests and adjacent upland habitats of California's Central Valley and foothills. Live stems support the life cycle of the beetle for both food and cover. Elderberry shrubs are generally found along waterways and in floodplains that support remnant stands of riparian vegetation but are not inundated for long periods of time (Talley 2005). Although VELB occurs in both riparian and upland woodland and scrub habitats, VELB occupancy tends to be higher in riparian areas versus upland elderberry locations (USFWS 1999 2017). In addition to VELB's dependency on elderberry shrubs, they also rely on the surrounding riparian and upland habitat to disperse between shrubs. Thus, contiguous intact riparian systems are essential to dispersal and migration of VELB and are the essential habitat for VELB (USFWS 2017).

Because VELB have limited flight range, they are reliant on contiguous habitat. Fragmentation of habitat leads to loss of subpopulations and decreases the likelihood of colonization of unoccupied habitats. The average distance between shrubs with exit holes is 65–165 feet with up to a half mile between occupied clumps. In managed areas, such as rivers with a levee system and modified floodplain, the USFWS considers riparian habitat and upland woodland and scrub habitat as associated elderberry habitat if it occurs in the floodplain of the waterway (USFWS 2017). Although upland woodland and scrub require different hydrologic regimes, they provide similar connectivity to other riparian habitat in these manipulated systems and are believed to maintain connectivity between occupied and unoccupied habitats.

TABLE 1
SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE SURVEY AREA

Listing Status	Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Listed Species	Invertebrates	Valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	FT	–	Mature elderberry shrubs.	**High.** Elderberry plants are present in the survey area. Exit holes observed. Adults previously documented in both C3A and C4A survey areas from 1984.
	Reptiles	Giant garter snake *Thamnophis gigas*	FT	CT	Permanent or semipermanent water and dense emergent vegetation; freshwater marshes, streams, and canals with permanent water.	**Low.** The American River lacks suitable habitat (USFWS AFRC BO 2014-F-0518).
	Birds	Western yellow-billed cuckoo *Coccyzus americanus occidentalis*	FT	CE	In California, western cuckoos are largely restricted to river valleys in the north-central (e.g., Sacramento River) and southwestern (e.g., Kern River) regions. Western cuckoos prefer to nest in willow (*Salix* spp.), cottonwood (*Populus* spp.), and mesquite (*Prosopis* spp.), but they will also use orchards.	**Moderate.** Vocalization documented in 2020 approximately four miles upstream on a densely forested island in the American River. Submarginal nesting habitat occurs in the survey area, but it may be used by transient birds.
		Tricolored blackbird *Agelaius tricolor*	–	CT	Breeds near freshwater in dense emergent vegetation or dense brush.	**Low.** Marginal nesting habitat in the willow riparian area. Closest known occurrence is greater than five miles away.
		Swainson's hawk *Buteo swainsoni*	–	CT	Often nests near riparian systems but will also use lone trees in agricultural fields or pastures and roadside trees when available and adjacent to suitable foraging habitat.	**High.** Known to nest within and adjacent to the survey area.
		Bank swallow (nesting) *Riparia*	–	CT	Colonial nester mostly along coastal areas and rivers in Northern and Central California. Nesting restricted to vertical banks or bluffs with friable soils suitable for burrowing. Vegetation is varied; nesting sites are selected mostly based on the suitability of the nesting bank.	**Moderate.** Historic population occurred in the C3A survey area. Last observed in 1986 prior to the site being riprapped. No bank nesting habitat observed within the survey area but may use the C3A survey area for foraging. Three other populations recorded 8-10 miles upstream on LAR as recently as 2002.
Nonlisted Special-Status Species	Invertebrates	Crotch bumble bee *Bombus crotchii*	–	–	Open grasslands and scrub habitat in California with available underground nesting habitat in fossorial animal burrows.	**Moderate.** Annual grassland and scrub habitats are available and several commonly visited flower species may occur in the survey area. The closest sighting was 12 miles to the east, just east of Mather Air Force Base, in 2020 (CNDDB 2021).

TABLE 1 (CONTINUED)
SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE SURVEY AREA

Listing Status	Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Nonlisted Special-Status Species (cont.)	Invertebrates (cont.)	Western bumble bee *Bombus occidentalis occidentalis*	–	–	Nests, forages, and overwinters in meadows and grasslands with abundant floral resources and available underground nesting habitat in fossorial animal burrows. Range is throughout California, but more common in the Sierra Nevada and Coast Ranges than in the Central Valley.	**Low.** Grassland habitat is available, but the western bumble bee is uncommon in the Central Valley.
	Reptiles	Western pond turtle *Actinemys marmorata*	–	CSC	Variety of aquatic habitats, both permanent and intermittent, with suitable aerial and aquatic basking sites. Needs upland habitats for nesting, overwintering, and aestivating.	**High**. Observed in the Contract 2 survey area approximately 1.5 miles upstream of C3A during 2018 surveys (ESA 2018).
	Birds	Cooper's hawk *Accipiter cooperii*	–	WL	A common migrant and winter resident. Nests and forages in a wide variety of forest and woodland habitats.	**High**. Known to occur within 0.5 miles of the C4A survey area and approximately 1.5 miles of the C3A survey area.
		Great egret *Ardea alba*	MBTA	–	Colonial nester in large trees. Rookery sites located near marshes, tide flats, irrigated pastures, and margins of rivers and lakes.	**Moderate**. Potential nesting habitat in the survey area. There is a documented egret rookery approximately 0.5 miles downstream and another approximately 6 miles upstream of the survey areas on the American River.
		Great blue heron (rookery site) *Ardea herodias*	MBTA	–	Variety of habitats near sources of water. Nests commonly high in the tops of secluded large snags or live trees.	**Moderate**. Potential nesting habitat in the survey area. There is a documented heron rookery approximately 0.5 miles downstream and another approximately 6 miles upstream. upstream of the survey areas on the American River.
		Burrowing owl *Athene cunicularia*	–	CSC	Nests and roosts in burrows, usually of ground squirrels, in grasslands and ruderal habitats.	**Moderate**. Historic nesting sites within 0.5 miles of site C3A, which was destroyed due to construction in 1974. Several ground squirrel burrows observed along the levee corridor could provide habitat.
		White-tailed kite (nesting) *Elanus leucurus*	–	FP	Savanna, open woodland, marshes, partially cleared lands and cultivated fields, mostly in lowland habitats. Nests in trees, often near marshes.	**High**. CNDDB records within 0.5 miles of the survey areas documented as recently as 2009.
		Purple martin *Progne subis*	–	CSC	Nests mostly in old woodpecker cavities; also nests in human-made structures. Nest is often located in tall, isolated trees/snags.	**Moderate**. Potential nesting habitat in the survey area. Known to occur on bridge and overpass structures within one mile of the survey area.

TABLE 1 (CONTINUED)
SPECIAL-STATUS ANIMAL SPECIES CONSIDERED IN THE SURVEY AREA

Listing Status	Type	Common Name Scientific Name	Fed Status	State Status	Habitat	Potential to Occur
Nonlisted Special-Status Species (cont.)	Birds (cont.)	Yellow warbler *Setophaga petechial* (migrating)			Nests in riparian scrub and woodland habitat in the coastal and Sierra Nevada Mountain ranges typically in heavy brush.	**Present/Low.** Migrant bird observed foraging in riparian scrub during winter surveys at Site C4A. Yellow warblers are not known to nest in the valley.
	Mammals	Pallid bat *Antrozous pallidus*	–	CSC	Arid deserts and grasslands of low elevations in California; often near rocky outcrops and water. Usually roosts in rock crevices or buildings, less often in caves, tree hollows, mines, etc. Prefers narrow crevices in caves as hibernation sites.	**High**. This species may roost in buildings and bridges in the survey area; however, roosting is not reported by the CNDDB within five miles of the survey area or within the nine-quadrangle area that includes the survey area.
		Western red bat *Lasiurus blossevillii*	–	CSC	Associated with riparian habitat. Roosts primarily in the foliage of trees or shrubs but may also occasionally use caves. Day roosts commonly in edge habitats.	**High**. This species may roost in mixed oak woodland habitat in the survey area; however, roosting is not reported by the CNDDB within five miles of the survey area or within the nine-quadrangle area that includes the survey area.
		American badger *Taxidea taxus*	–	CSC	Requires sufficient food, friable soils to excavate dens and pursue prey, and relatively open, uncultivated ground.	**Moderate.** The potential exists for this species to use the parkway. Although no signs of presence were observed, there were small fossorial mammal burrows and ground squirrel activity. There are two historic occurrences within five miles; the most recent sighting was from 1991.

NOTES:

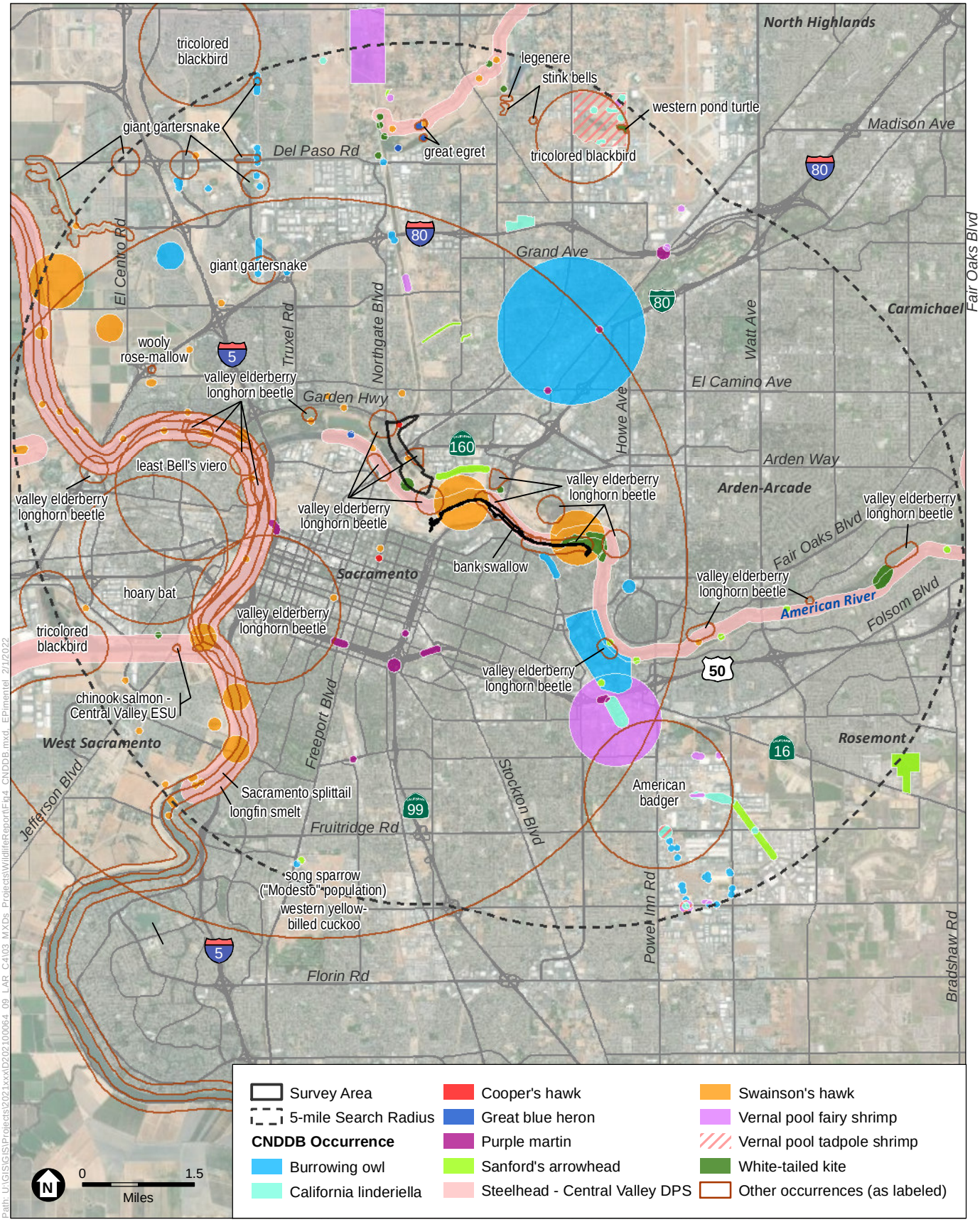
CNDDB = California Natural Diversity Database

Federal
FC: Federal candidate for listing
FE: Federally listed as endangered
FT: Federally listed as threatened
FD: Federally delisted
MMPA: Marine Mammal Protection Act
MBTA: Migratory Bird Treaty Act

State
CE: State listed as endangered
CT: State listed as threatened
CD: State delisted
CP: State proposed for listing

State
FP: California fully protected species
CSC: California species of special concern
*: CDFW protected
WL = CDFW watch list

SOURCES: CDFW, 2021; Jennings and Hayes, 1994; Ron Melcer Jr., Delta Stewardship Council, pers. comm., July 28, 2019; Shuford and Gardali, 2008; USFWS, 2021; WBWG, 2005; Zeiner et al., 1988, 1990a, 1990b.



SOURCE: Esri, 2021; CDFW, 2021; ESA, 2022

American River Common Features Contracts 3A and 4A

Figure 4
Special-status Species Occurrences within 5 miles of the Survey Area

ESA

There are documented occurrences of VELB in the C3A and C4A survey areas from 1984, when adult beetles were captured. Additional beetles were observed in 2013 and fresh exit holes were documented in 2006 (CDFW 2021) and in 2018 (ESA 2018) upstream of the survey area on the lower American River in Subreach 2.

Yellow-billed Cuckoo

The western yellow-billed cuckoo is a subspecies of the yellow-billed cuckoo and has been recognized through designation of a distinct population segment (USFWS 2001). In 1988, the cuckoo was listed by the State as endangered under the California Endangered Species Act (CDFW 2019c). In 2014, the cuckoo was Federally listed as threatened under the Federal Endangered Species Act, and critical habitat was proposed throughout its range, including a 69-mile-long, contiguous segment of the Sacramento River from Red Bluff to Colusa (USFWS2014a and 2014b). The cuckoo is typically found in riparian forests with dense deciduous trees and shrubs, primarily in riparian forests and associated bottomlands dominated by willow, cottonwood, or mesquite (Gaines and Laymon 1984; Laymon and Halterman 1987; Hughes 1999; Halterman et al. 2001).

This subspecies was once common throughout California (Grinnell and Miller 1944), but the population has declined over the last 100 years following extensive loss of riparian habitat. In California, cuckoos are consistently found in only a few isolated areas: the Sacramento Valley (between Red Bluff and Colusa), the Feather River (between Gridley and Nicolaus), the South Fork of the Kern River, and several Lower Colorado River Multi-Species Conservation Program restoration sites on the California side of the lower Colorado River (Gaines and Laymon 1984; Laymon and Halterman 1989; Laymon 1998; Halterman et al. 2001; Dettling and Seavy 2012).

Until recently, the Upper Sacramento River was believed to have one of the largest cuckoo populations in California. However, surveys have documented a dramatic decline in this population (Halterman et al. 2001; Dettling and Howell 2011; Dettling et al. 2014). Riparian vegetation in this area has increased by almost 5,000 acres since 1996 as a result of restoration efforts (Golet et al. 2008). Gaines and Laymon (1984) suggested, however, that many large patches along the Sacramento River in Tehama County and along the Feather River appeared to be unoccupied even though they apparently represent suitable habitat. Follow-up surveys were conducted in 1987 and 1999, and between one and six individuals were found along the Feather River between Oroville and Nicolaus (Laymon and Halterman 1989; Halterman et al. 2001).

Until very recently, the last documented occurrence in the CNDDB in the vicinity of the survey area was from the late 1800s. However, on July 27, 2019, a cuckoo vocalization was documented approximately four miles upstream on a heavily forested island in the American River (Ron Melcer Jr., Delta Stewardship Council, pers. comm., July 28, 2019). The bird was not observed, and the nesting status is unknown.

The survey area provides marginal remnant riparian habitat that may be used for foraging or dispersal. However, the riparian habitat in the survey area does not meet the typical size requirements (25 contiguous acres or more) for home ranges of nesting yellow-billed cuckoos (USFWS 2001).

Swainson's Hawk

Swainson's hawk is State listed as threatened. It once occupied large grassland and shrub steppe habitats, as well as canyons, foothills, and smaller interior valleys in otherwise mountainous regions. Currently, the species is most common in the Central Valley and Great Basin. Nesting habitat for Swainson's hawk includes mature trees with relatively dense canopies such as oaks or cottonwoods in or near riparian habitat, agricultural fields, or suburban neighborhoods near suitable foraging habitat. They forage in grasslands, irrigated pastures, and grain fields. In California, Swainson's hawks begin nesting in late March, and the young usually leave the nest (fledge) by August.

Two CNDDB occurrence of Swainson's hawk occur in the C3A the survey area from 2010 and 2012. In 2017, a nest with two nestlings near Northgate Boulevard was identified in C4A (CDFW 2021) and another nest was identified in 2007 at Camp Pollock. Additionally, there has been a regularly documented nest just upstream of Howe Avenue (Sorgen, K. C. pers. comm. 2019) and a potential nesting pair was observed in May 2019 by a DWR survey team on the river's right bank just downstream of Watt Avenue (Lori Price pers. comm., 2019). The survey area and landscape within 0.5 miles was assessed for potential Swainson's hawk nesting and foraging habitat. The large trees within the riparian corridor and adjacent parks could provide nesting sites and annual grasslands and nearby parks provide suitable foraging habitat.

Bank Swallow

The bank swallow is State listed as threatened. It is a neotropical migrant that arrives in California in May and breeds before returning to South America in late July or August. Swallows primarily inhabit riparian and lowland habitats with vertical banks, bluffs, and cliffs where they dig holes for nesting in sandy or fine-textured soil (CDFG 1999a). The species' range in California is estimated to have been reduced by 50 percent since 1900 (CDFG 1999a). Bank swallow was formerly more common as a breeder in California. Now, only approximately 110–120 colonies remain in the state. Perhaps 75 percent of the current breeding population in California occurs along the banks of the Sacramento and Feather Rivers in the northern Central Valley (CDFG 1999a).

Historically, a population of nesting bank swallows, was documented in the C3A survey area. The most recent record from CNDDB for this location was from 1986, but CNDDB noted that the site has since been riprapped and habitat no longer exists (CDFW 2021). The closest recent (2017) CNDDB record is from the vicinity of Knights Landing, which is approximately 15 miles from the survey area. Although nesting habitat in the survey area is limited, as the banks are mostly covered in dense vegetation, there is high-quality foraging habitat that bank swallows may use (CDFW 2021).

3.2.2 Nonlisted Special-Status Wildlife Species

Crotch Bumble Bee

The crotch bumble bee was petitioned to be added to the State endangered species list and was listed as a candidate species by CDFW in June 2019. However, the Sacramento Superior Court

overturned the ruling in November 2020, stating that the California Endangered Species Act does not protect terrestrial invertebrates. This ruling is currently under appeal. Thus, the crotch bumble bee was included in this report, because it may meet the criteria for listing if higher courts determine that invertebrates may qualify for such listing and was considered a special status species in conformance with Section 15380(d) of the CEQA Guidelines.

It inhabits open grassland and scrub habitats throughout California. Crotch bumble bees primarily nest underground in mammal burrows but are occasionally observed in old logs and cavities in trees, among other aboveground locations. They are generalist foragers, with short tongues, and thus prefer foraging on open flowers with short corollas. They overwinter in soft disturbed soil or under leaf litter (CDFW 2019b).

This species was historically common throughout the Central Valley, but now is mostly absent. The closest occurrence documented in the CNDDB, last recorded in 2020, was just east of Mather Air Force Base approximately 12 miles east of the Project area. Documented occurrences are limited in the Central Valley, but that may partially be due to under reporting. Two other sighting were documented within 20 miles of the Project Area in 2020: one just west of Davis and one in the Consumnes River Preserve. Suitable foraging habitat occurs in the survey area in annual grassland and scrub habitats. The potential for nesting and overwintering within the levees is unknown, due to potential frequent flooding and the limited data available documenting the bee's habits, but sufficient rodent burrows do occur.

Western Pond Turtle

The western pond turtle is a California species of special concern. This moderate-sized aquatic turtle is commonly found in ponds, lakes, marshes, rivers, streams, and irrigation ditches with rocky or muddy substrates. Its habitat often exhibits shoreline basking areas that may or may not be bordered by aquatic vegetation. Aquatic sites are often within woodlands, grasslands, and open forests, between sea level and 6,000 feet in elevation. Pond turtles bask on logs or other objects when water temperatures are lower than air temperatures. Their nests are created in upland areas with friable soils, often up to 0.25 miles from an aquatic site (Jennings and Hayes 1994; Stebbins, 2003; Zeiner et al. 1988).

Western pond turtles are discontinuously distributed throughout California west of the Cascade-Sierran crest (Jennings and Hayes 1994). They were documented by the CNDDB within the nine-quadrangle area and were observed just upstream of the Campus Commons Golf Course, on river right, basking on a log in the water (ESA 2019).

Cooper's Hawk

The Cooper's hawk is a CDFW watch list species. This medium-sized accipiter is a resident of wooded areas throughout California, with breeding described throughout the Coast Ranges and Sierra Nevada foothills. The Cooper's hawk forages mostly on small birds and mammals, although it will also take reptiles and amphibians. The species' peak nesting season is May through July, although nesting may occur any time from March to August (Zeiner et al. 1990a).

A Cooper's hawk nest was recorded by the CNDDB within 0.5 miles of the survey area in 2007 and 2008 (CDFW 2021). Woodland habitat in and near the survey area provides potential nesting opportunities for this species.

Western Burrowing Owl

Western burrowing owls are California species of special concern. They inhabit grassland, desert, and open shrub habitats throughout the state from sea level to approximately 5,300 feet (CDFG 1999b). Unlike many sensitive species, burrowing owls persist and even thrive in some landscapes that are highly altered by human activity. The characteristics of suitable habitat are burrows for roosting and nesting, and relatively short vegetation with only sparse shrubs and taller vegetation. Individuals in agricultural environments nest along roadsides and water conveyance structures. Breeding occurs February through August (CDFG 2012).

The closest CNDDB occurrence of burrowing owl is just east of Site 2-1 on the university campus and approximately two miles east of the survey area. The levee and bike paths along the survey area corridors in the survey areas consists of disturbed grasslands with small mammal burrows and ground squirrel activity. This area provides potential nesting and foraging habitat for burrowing owl. During reconnaissance-level surveys, no burrowing owls or signs of occupied burrows were found.

White-Tailed Kite

The white-tailed kite is a fully protected species under the California Fish and Game Code. This species nests primarily in riparian and lowland habitats often associated with agricultural areas throughout cismontane California. White-tailed kites typically nest in dense vegetation at the tops of oaks, willows, or other native trees. They prey primarily on voles and other diurnal mammals (CDFG 2005). Their numbers and range have increased in the past few decades (CDFG 2005).

There are two known CNDDB occurrences of white-tailed kite within 0.5 mile of the survey area, the most recent documented in 2009 (CDFW 2021). The survey area provides trees suitable for nesting and potential foraging habitat is available along the levees and in nearby parks and open grasslands. White-tailed kites were not observed during the surveys.

Other Breeding and Migratory Birds

The Federal Migratory Bird Treaty Act and California Fish and Game Code protect raptors, most native migratory birds, and breeding birds that could be present in the survey area. The LAR Parkway corridor provides high-quality foraging and nesting opportunities for a variety of resident and migratory birds. Common raptor species that may nest in the mature trees of the parkway could include red-tailed hawk, red-shouldered hawk, and great horned owl. Wading birds such as the great egret and the great blue heron are known to nest upstream and downstream of the survey area and have been observed foraging in the survey area. Among the many bird species observed in the survey area with the potential to nest are western scrub jay, western kingbird, yellow-rumped warbler, acorn woodpecker, northern mockingbird, American crow, Canada goose, and gulls. Remnant swallow nests were observed under the Highway 160 Bridge.

Purple martin, a California species of special concern, is also known to occur in the area and has the potential to nest in the survey area. A full list of species observed in the survey area is provided in Appendix B, Table B-1.

Pallid Bat

The pallid bat, a California species of special concern, occurs throughout California except in parts of the high Sierra and the northwestern corner of the state (Zeiner et al. 1990b). The pallid bat inhabits a variety of habitats, such as grasslands, shrublands, woodlands, and forests; however, it is most abundant in open, dry habitats with rocky areas for roosting. Pallid bats roost alone, in small groups, or gregariously (WBWG 2005). Roosts include caves, crevices in rocky outcrops and cliffs, mines, trees, and various manmade structures (e.g., bridges, barns, porches); they generally have unobstructed entrances/exits and are high above the ground, warm, and inaccessible to terrestrial predators. Year-to-year and night-to-night roost reuse is common; however, bats may switch day roosts on a daily and seasonal basis (WBWG 2005).

The pallid bat is common throughout the lower elevations in California. No occurrences are reported within five miles of the survey area, or within the nine-quadrangle area that includes the survey area. The bridges in the survey area may provide suitable roosting habitat for this species.

Western Red Bat

The western red bat is a California species of special concern. This is a riparian obligate species (i.e., dependent on riparian habitat) that is ubiquitous throughout California except the northern Great Basin region. Western red bats roost individually in dense clumps of tree foliage in riparian areas, orchards, and suburban areas. They are primarily moth specialists but will forage for a variety of other insects. Individuals have been observed foraging around streetlamps and floodlights in suburban areas (WBWG 2005).

Based on its tendency to roost within tree foliage, this species may be intermittently present in the riparian and woodland habitat in the survey area; however, roosting occurrences are not reported by the CNDDB within five miles of the survey area or within the nine-quadrangle area that includes the survey area.

American Badger

The American badger is a California species of special concern. This species prefers open grasslands and riparian habitat within the valley areas, although it occurs throughout multiple habitat types in California. The principal requirements seem to be sufficient food, friable soils to excavate dens and pursue prey, and relatively open, uncultivated ground. In California, badgers range throughout the state, except for the humid coastal forests of northwestern California in Del Norte County and the northwestern portion of Humboldt County (Williams 1986).

Reconnaissance-level wildlife surveys of the survey area in fall did not detect any badger excavations or other signs of species presence. This species was previously observed in the

vicinity of the survey area, but the observation is 30 years old (CDFW 2021). Nonetheless, suitable habitat occurs in the survey area in annual grasslands.

Critical Habitat for Listed Wildlife Species

USFWS defines the term “critical habitat” in the Federal Endangered Species Act as a specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection. The survey area is not within designated critical habitat for any listed terrestrial wildlife species.

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CHAPTER 4
References and Report Preparation

4.1 References

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4.2 Document Preparation

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Appendix A
Natural Communities Crosswalk

TABLE A-1
CROSSWALK TABLE OF NATURAL COMMUNITIES

Natural Community	CWHR	Manual of California Vegetation Alliance
Annual grassland	Annual grassland	Annual brome grassland
		Yellow star-thistle fields
		California annual grasslands
		Western ragweed meadow
		Wild oats grassland
		Poison hemlock or fennel patch
Oak woodland	Coastal oak woodland	Coast live oak woodland
	Valley oak woodland	Valley oak woodland
		Hind's walnut and related stand
	Montane hardwood	Interior live oak woodland
Upland scrub	Coastal scrub	Coyote brush scrub
	Valley foothill riparian	California rose briar patch
		Coastal bramble
		Blue elderberry stand
Non-native woodland	Eucalyptus	Eucalyptus–tree of heaven–black locust grove
Riparian woodland	Valley foothill riparian	Fremont cottonwood forest
		Box-elder forest
		Red willow thicket
		Black willow thicket
		White alder grove
		Valley oak woodland
		California sycamore woodland
		Oregon ash grove
Riparian scrub	Valley foothill riparian	Sandbar willow thicket
		Arroyo willow thicket
		Pacific willow thicket
		Button willow thicket
		Blue elderberry stand
		California rose briar patch
Emergent Wetland	Fresh Emergent Wetland	Tule-cattail
		Non-native/invasive forb
		Water hyacinth wetlands

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Appendix B
Wildlife and Plant Species Observed during Reconnaissance Surveys

TABLE B-1
WILDLIFE SPECIES OBSERVED IN THE C3A AND C4A SURVEY AREAS

Type	Common Name	Scientific Name
Reptiles	red-eared slider	*Trachemys scripta elegans*
Birds	mallard	*Anas platyrhynchos*
	California scrub-jay	*Aphelocoma californica*
	Oak titmouse	Baeolophus inornatus
	Canada goose	*Branta canadensis*
	California quail	*Callipepla californica*
	northern flicker	*Colaptes auratus*
	American crow	*Corvus brachyrhynchos*
	dark-eyed junco	*Junco hyemalis*
	gull	*Larus sp.*
	belted kingfisher	*Megaceryle alcyon*
	acorn woodpecker	*Melanerpes formicivorus*
	wild turkey	*Meleagris gallopavo*
	song sparrow	*Melospiza melodia*
	California towhee	*Melozone crissalis*
	northern mockingbird	*Mimus polyglottos*
	ash-throated flycatcher	*Myiarchus cinerascens*
	spotted towhee	*Pipilo maculatus*
	bushtit	*Psaltriparus minimus*
	black phoebe	*Sayornis nigricans*
	Yellow-rumped warbler	*Setophaga coronata*
	Yellow warbler (migrating)	*Setophaga petechial*
	European starling	*Sturnus vulgaris*
	American robin	*Turdus migratorius*
	western kingbird	*Tyrannus verticalis*
	mourning dove	*Zenaida macroura*
	White-crowned sparrow	*Zonotrichia leucophrys*
Mammals	black-tailed jackrabbit	*Lepus californicus*
	western gray squirrel	*Sciurus griseus*
	California ground squirrel	*Spermophilus beecheyi*

TABLE B-2
PLANT SPECIES OBSERVED IN THE C3A AND C4A SURVEY AREAS

Family	Scientific Name	Common Name
Azollaceae	*Azolla filiculoides*	Water fern
Adoxaceae	*Sambucus nigra* ssp. *caerulea*	Blue elderberry
Anacardiaceae	*Toxicodendron diversilobum*	Western poison oak
Apiaceae	*Conium maculatum*	Poison hemlock
	Foeniculum vulgare	Fennel
	Torilis arvensis	Hedge parsley
Apocynaceae	*Apocynum cannabinum*	Indian Hemp
	Vinca major	Greater periwinkle
Asteraceae	*Artemisia douglasiana*	Mugwort
	Baccharis pilularis ssp. *consanguinea*	Coyote brush
	Carduus pycnocephalus ssp. *pycnocephalus*	Italian thistle
	Centaurea solstitialis	Yellow star-thistle
	Cichorium intybus	Common chicory
	Cirsium vulgare	Bull thistle
	Erigeron canadensis	Horseweed
	Helianthus annuus	Common sunflower
	Lactuca serriola	Prickly lettuce
	Xanthium strumarium	Cocklebur
Boraginaceae	*Heliotropium curassavicum*	Salt Heliotrope
Brassicaceae	*Lepidium latifolium*	Perennial pepperweed
	Raphanus raphanistrum	Wild radish
Chenopodiaceae	*Chenopodium album*	White Goosefoot
Convolvulaceae	*Convolvulus arvensis*	Bindweed
Fabaceae	*Melilotus albus*	White sweetclover
	Robinia pseudoacacia	Black locust
	Trifolium hirtum	Rose clover
	Vicia sativa ssp. *sativa*	Spring vetch
Fagaceae	*Quercus agrifolia* var. *agrifolia*	Coast live oak
	Quercus lobata	Valley Oak
Geraniaceae	*Geranium dissectum*	Cranesbill
Juglandaceae	*Carya illinoinensis*	Pecan
	Juglans hindsii	Northern CA black walnut
Malvaceae	*Malvella leprosa*	Alkali-mallow
Oleaceae	*Fraxinus latifolia*	Oregon ash
Onagraceae	*Epilobium ciliatum*	Fringed willowherb
Platanaceae	*Platanus racemosa*	Western sycamore

Family	Scientific Name	Common Name
Plantaginaceae	*Plantago lanceolata*	English plantain
Polygonaceae	*Rumex crispus*	Curly dock
Rosaceae	*Heteromeles arbutifolia*	Toyon
	Rosa californica	California wild rose
	Rubus armeniacus	Himalayan blackberry
	Rubus ursinus	California blackberry
Rubiaceae	*Galium aparine*	Goose grass
Salicaceae	*Populus fremontii*	Fremont's cottonwood
	Salix exigua	Sandbar willow
	Salix gooddingii	Goodding's willow
	Salix lasiolepis	Arroyo willow
Sapindaceae	*Acer negundo*	Box elder
Verbenaceae	*Verbena litoralis*	Seashore vervain
Vitaceae	*Vitus californica*	California grape
Cyperaceae	*Carex barbarae*	Santa Barbra sedge
Poaceae	*Avena* sp.	Wild oat
	Bromus diandrus	Ripgut grass
	Bromus hordeaceus	Soft chess
	Cynodon dactylon	Bermuda grass
	Elymus triticoides	Beardless wild rye
	Festuca perennis	Rye grass
	Hordeum murinum ssp. *leporinum*	Foxtail barley
	Setaria parviflora	Marsh bristlegrass
	Sorghum halepense	Johnson grass
	Stipa miliacea	Smilo grass

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Appendix B

American River Watershed Common Features 2016 Project, American River Contract 3A Aquatic Resource Delineation Report

AMERICAN RIVER WATERSHED COMMON FEATURES 2016 PROJECT
AMERICAN RIVER CONTRACT 3A

Aquatic Resources Delineation Report

Prepared for
Sacramento Area Flood Control Agency

February 2022

ESA

AMERICAN RIVER WATERSHED COMMON FEATURES 2016 PROJECT
AMERICAN RIVER CONTRACT 3A

Aquatic Resources Delineation Report

Prepared for
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February 2022

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CHAPTER 1
Introduction

This report documents the results and conclusions of an aquatic resources delineation conducted for the American River Watershed Common Features (ARCF), Lower American River Contract 3A (Project) area. The Project is located in Sacramento County along the American River (**Figure 1-1**). The Project area encompasses portions of the river, the levee and surrounding areas, and access routes along the levees, nearby roads, and bike trails (**Figure 1-2**). The delineation was conducted on behalf of the U.S. Army Corps of Engineers (USACE), Central Valley Flood Protection Board, and Sacramento Area Flood Control Agency (SAFCA) (Project Partners).

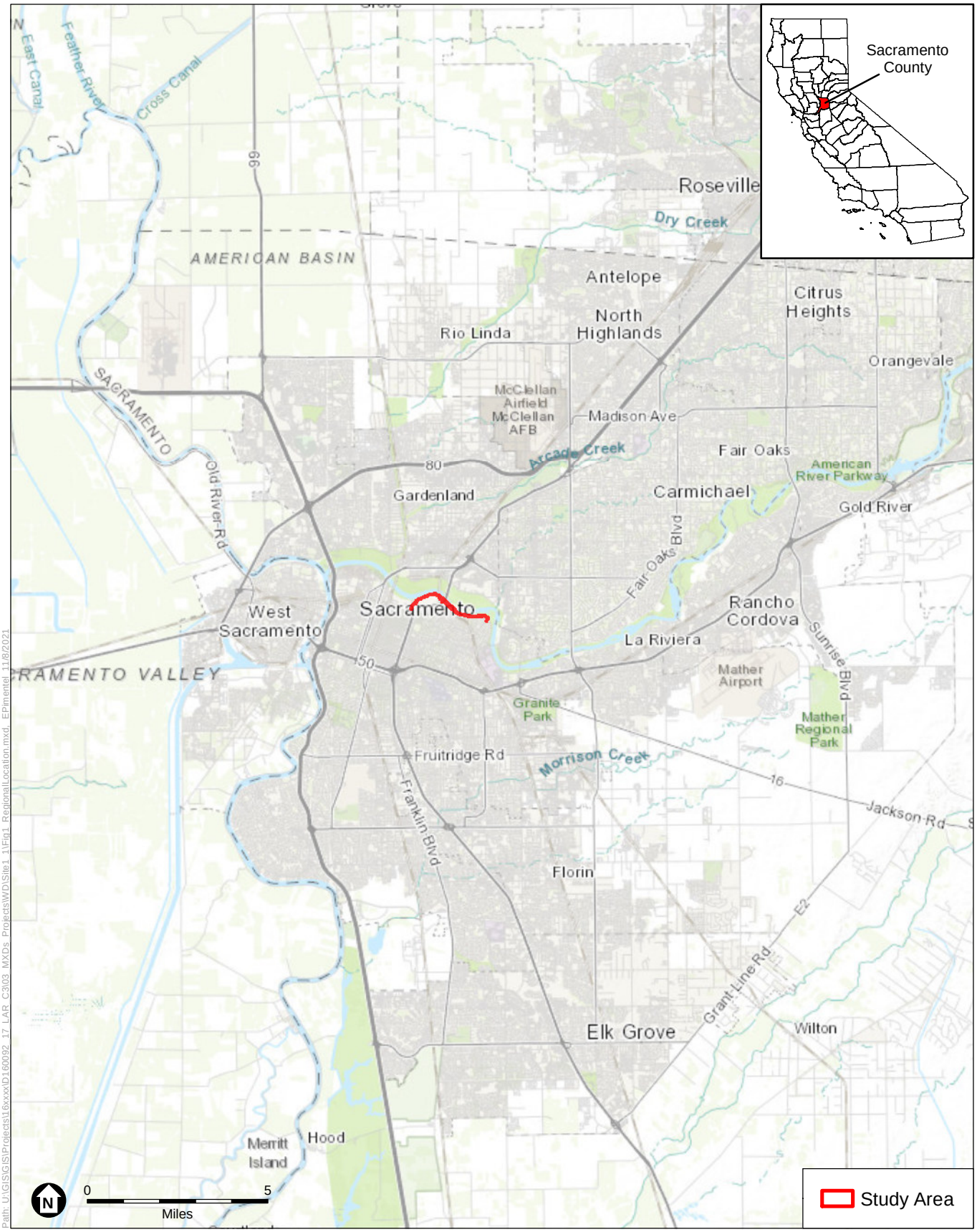
1.1 Purpose

The purpose of this investigation is to describe and delineate all aquatic resources, including wetlands, within the Project area and document sufficient information for the USACE to determine which features qualify as waters of the U.S. that are subject to regulation under Section 404 of the Clean Water Act (CWA). The boundaries of the aquatic features mapped in this report were delineated based on field and other data and reflect the best professional judgment of investigators. All conclusions presented should be considered preliminary and subject to change pending review and verification by the USACE.

1.2 Location

The Project area comprises approximately 30.5 acres in Sacramento County, California. The Project area extends along a reach of the American River from the north end of 28th Street at Sutter's Landing Regional Park at approximately river mile 3, upstream to the parking lot of Glenn Hall Park at approximately river mile 5.5. The Project area includes existing roads for access to both the upstream and downstream ends. An aerial photograph of the Project area is provided in Figure 1-2.

The Project area is in sections 32 and 33 (township 9 north, range 5 east) and sections 3 and 4 (township 8 north, range 5 east) of the Sacramento East, California U.S. Geological Survey (USGS) 7.5-minute series quadrangle. The approximate centroid of the Project area is 38.585977º North, 121.446432º West. Elevation ranges from approximately 10 to 45 feet above mean sea level. Much of the Project area is in the floodplain of the American River (FEMA, 2021). The American River is a regulated stream of the Central Valley Flood Protection Board (DWR, 2021). The water side of the levee in the Project area is in the Lower American USGS Hydrologic Unit (18020111). The land side of the levee in the Project area is in the Lower Sacramento USGS Hydrologic Unit (18020163).



SOURCE: Esri, 2021; ESA, 2021

American River Common Features Contract 3A

Figure 1-1
Regional Location

ESA

SOURCE: Esri, 2021; USDA, 2018; ESA, 2022

American River Common Features Contract 3A

Figure 1-2
Study Area

ESA

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1.3 Responsible Parties

The Project owner is:

U.S. Army Corps of Engineers, Sacramento District
1325 J Street
Sacramento, California 95814-2922

The ESA point of contact for the Project is:

Mr. David Beauchamp, Project Manager
Environmental Science Associates
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1.4 Directions to Site

To access the Contract 3A site from downtown Sacramento:

- Take J Street towards 21st Street.
- Turn left onto 21st Street.
- Turn right onto E Street, staying straight at the traffic circle to stay on E Street.
- Turn left to 28th Street.
- Continue onto 28th Street until you reach Sutter's Landing Parking Lot. The Contract 3A site begins at the corner of McKinley Village Way and 28th Street.

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CHAPTER 2
Methods

2.1 Pre-field Review

Prior to conducting fieldwork, the following background tasks were performed:

- Review of current and historical U.S. Geologic Survey (USGS) topographic maps (USGS, 2021);
- Review of current and historical aerial photography (Google, Inc., 2021, UCSB, 2021);
- Review of the online soil survey (NRCS, 2021a) for information about soils and geomorphology;
- Review of the National Hydric Soils List (NRCS, 2021b) to determine if any soil mapping unit components are considered hydric;
- Review of the National Wetlands Inventory (U.S Fish and Wildlife Service [USFWS], 2021);
- Review of the Sacramento USACE District Navigable Waterways (USACE, 2021); and
- Review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) (FEMA, 2021).

2.2 Field Survey Methods

Field investigations were conducted by Environmental Science Associates (ESA) biologists Chuck Hughes and Amanda Segura-Moon on October 28, 2021. The delineation used the "Routine Determination Method" as described in the *1987 Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987), hereafter called the "1987 Manual." The 1987 Manual was used in conjunction with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (USACE, 2008a), hereafter called the "Arid West Supplement." For areas where the 1987 Manual and the Arid West Supplement differ, the Arid West Supplement was followed.

The Arid West Supplement is applicable for use because the Project area experiences hot, dry summers typical of a Mediterranean climate, and the surrounding landscape in the bottom of the Sacramento Valley is dominated by oaks (USACE, 2008a). The Arid West Supplement was used for this delineation based on landscape, site conditions, vegetation, and climate.

ESA assessed presence or absence of positive indicators for wetland vegetation, soils, and hydrology per the 1987 Manual and Arid West Supplement. Data points were recorded on Arid West wetland determination data forms (**Appendix A**).

At each data point, a visual assessment of the plant cover by species was made. Dominant species were assessed using the "50/20" rule per the Arid West Supplement. Plants were identified to species using *The Jepson Manual: Vascular Plants of California, second edition* (Baldwin et al., 2012). The *National Wetland Plant List* (USACE, 2018) was used to determine the wetland indicator status of all plants. Soils at each data point were characterized by color, texture, organic matter accumulation, and the presence or absence of hydric soil indicators. Color was described using the *Munsell Soil Color Book* (Kollmorgen Instruments Corporation, 1990). Presence of wetland hydrology was determined at each data point by presence of one or more of the primary and/or secondary indicators, per the Arid West Supplement.

2.3 Mapping and Acreage Calculations

Data points and boundaries of wetlands above the ordinary high water mark (OHWM) were recorded using a Global Positioning System (GPS) with real-time differential correction and an instrument-rated mapping accuracy of +/- 1 meter. Field indicators of the OHWM as described by the USACE (2008b; 2014) matched reasonably well with the water elevation at an American River flow of 18,500 cubic feet per second (cfs; see Appendix D, photo 7). The 18,500 cfs flow elevation was also used in previous work (ESA, 2019). The 18,500 cubic feet per second (cfs) elevation (approximately 25-foot elevation [NAVD88] in the Project area) is the water surface elevation of the approximate 2-year flood event and was used for the OHWM throughout the Project area. The 18,500 cfs elevation was based on hydraulic modeling and provided digitally by Northwest Hydraulic Consultants in 2018.

Areas below the OHWM with at least 5 percent vegetation cover were identified based on aerial photography and mapped as wetlands. GPS and aerial photograph information were combined in ArcGIS. Acreage of wetlands and waters, and the length of linear features were determined using ArcGIS.

CHAPTER 3
Regulatory Framework

3.1 Waters of the U.S.

The CWA establishes the basic structure for regulating discharges of pollutants into waters of the U.S. and regulating quality standards for surface waters. The basis of the CWA was enacted in 1948 and was called the Federal Water Pollution Control Act, but the Act was significantly reorganized and expanded in 1972. "Clean Water Act" became the Act's common name with amendments in 1972. The CWA is the primary federal law protecting the quality of the nation's surface waters, including lakes, rivers, and coastal wetlands.

CWA Section 404 regulates the discharge of dredged and fill materials into waters of the U.S. Applicants must obtain a permit from the USACE for discharges of dredged or fill material into waters of the U.S., including wetlands, for non-exempt activities before proceeding. Waters of the U.S. are under the jurisdiction of USACE and USEPA.

Some features require a significant nexus test to determine if they are waters of the U.S. The significant nexus test includes consideration of hydrologic and ecologic factors. The significant nexus test takes into account physical indicators of flow (evidence of an OHWM), if a hydrologic connection to a TNW exists, and if the aquatic functions of the water body have a significant effect (more than speculative or insubstantial) on the chemical, physical, and biological integrity of a TNW. A significant nexus test includes similarly situated waters in the watershed. The Corps and EPA apply the significant nexus standard to assess the flow characteristics and functions of a potential water of the U.S. to determine if it significantly affects the chemical, physical, and biological integrity of the downstream TNW.

Traditional Navigable Water

Navigable waters of the United States are defined in 33 CFR § 329.4 as "…those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. A determination of navigability, once made, applies laterally over the entire surface of the waterbody, and is not extinguished by later actions or events which impede or destroy navigable capacity." Traditional navigable waters include all of the "navigable waters of the United States" as defined in 33 CFR § Part 329.4 as well as by numerous decision of the federal courts; those water bodies the Corps has determined are a navigable water of the U.S. pursuant to 33 CFR § 329.14; plus all other waters that are navigable-in-fact.

Ephemeral, Intermittent, and Perennial Streams

An ephemeral stream has flowing water only during, and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream, and runoff from rainfall is the primary source of water for stream flow. An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow. A perennial stream has flowing water year-round during a typical year (82 Federal Register 1860).

Wetlands

Wetlands include those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Vernal pools and seasonal wetlands are other examples. As noted previously, three positive parameters must normally be present for an area to be considered a wetland: (1) a dominance of wetland vegetation, (2) presence of hydric soils, and (3) presence of wetland hydrology.

CHAPTER 4
Setting

4.1 Project Area

The Project area is in the Sacramento Valley in an urbanized region. The Project area follows the left levee of the American River. At the upstream and downstream ends of the Project are access roads on the top or land-sides of the levee, that connect to the public road network. The center of the Project area contains the area where levee improvements will occur on the water-side of the levee, access roads on the levee, and a staging area on the land-side of the levee.

The climate in the region consists of cool, wet winters and hot, dry summers. The mean annual precipitation in Sacramento is 20.27 inches and temperatures range from a mean annual maximum of 73.1 degrees Fahrenheit to an average minimum temperature of 49.8 degrees Fahrenheit (Western Regional Climate Center; 2021, NWSFO, 2021). Precipitation from July 1, 2020 through June 30, 2021 (precipitation year) totaled 7.75 inches, which is 38% of the average accumulated precipitation for that period (NWSFO, 2021).

The Project area received an unusually large amount of rainfall in October 2021. From October 20–25, 2021 downtown Sacramento recorded 6.7 inches of precipitation. Normal precipitation for October is 0.93 inch. As a result of the large precipitation event a few days before the fieldwork, soils in the Project area were moist and water in the American River was higher than it would typically be in autumn. The results of the USACE antecedent precipitation tool for October 27, 2021 are in **Appendix B**. The antecedent precipitation tool returned “wetter than normal” conditions as a result of the large precipitation event but noted a drought index of “extreme drought”. The drought index considers a longer time period. On the data forms in Appendix A, climatic conditions are marked as not typical because the previous wet season had a severe drought, and fieldwork was conducted very early in the 2021–2022 wet season.

4.2 Soils

A custom soil resource report was generated (**Appendix C**). Although portions of the Project area are in the floodplain of the American River, soils are well-drained sandy loams or other recent alluvial soils without restrictive horizons.

A brief description of the primary soils within each soil map unit is provided below (NRCS, 1993; 2021a). Soil texture, pH, color, and redoximorphic features are summarized for the primary rooting zone. All colors refer to moist soil. Two of the map units consist of urban land complexes.

Urban land consists of areas covered by impervious surfaces, where the substrate is similar to the mapped soils, but may have been altered.

Columbia sandy loam, drained, 0–2% slopes, Columbia-Urban land complex, drained, 0–2% slopes: Columbia soils formed in alluvium from mixed rocks and occur on floodplains and natural levees. They are very deep and moderately well-drained. Native vegetation is typically dense oak or riparian woodland near channels, becoming more open with distance from a channel. Although Columbia soils would naturally be flooded or saturated for several months annually, in the study area they are mapped as "drained" indicating the natural flood regime is altered by flood control structures (Folsom Dam). The major component, and three minor components, constituting about 95% of this map unit are listed as hydric on the national hydric soils list where the necessary landform occurs (flood plains; NRCS, 2021b). A typical profile of Columbia fine sandy loam has:

0–16 inches	Brown (10YR 4/3) slightly acidic fine sandy loam.
16–23 inches	Brown (10YR 4/3) slightly acidic fine sandy loam with strong brown (7.5YR 5/6) redoximorphic concentrations.

Riverwash: This soil has a variable typical profile, with a 0 to 2 percent slope and gravelly alluvium parent material. The water table has an average depth of 0 inches. About 90% of this map unit is listed as hydric on the national hydric soils list where the necessary landform occurs (flood plains; NRCS, 2021b).

Rossmoor-Urban land complex, 0–2% slopes: Rossmoor soils formed in alluvium from mixed rocks and occur on high floodplains. They are very deep and well-drained. Native vegetation is typically valley oaks with annual grasses and forbs. Flooding is rare due to protection from levees and upstream dams. One minor component (Columbia soils), constituting about 6% of this map unit is listed as hydric on the national hydric soils list where the necessary landform occurs (flood plains; NRCS, 2021b). A typical profile of Rossmoor fine sandy loam has:

0–29 inches	Dark brown (10YR 3/3) neutral fine sandy loam.
29–62 inches	Dark yellowish brown (10YR 3/4) neutral fine sandy loam.

4.3 Hydrology

The water side of the levee in the Project area is in the Lower American River USGS Hydrologic Unit (18020111) and is located within the mapped floodplain of the American River. The water side of the levee experiences flooding during times of high water. FEMA (2021) base flood elevations (1% annual chance flood) have been determined to be approximately 41–42 feet for the portion of the Project area that includes the American River. The Lower American River in the project area is a traditional navigable water (USACE, 2021).

Portions of the project area on the land side of the levees drain to municipal storm drain systems. The land side of the levee in the Project area is mapped in the Lower Sacramento USGS Hydrologic Unit (18020163).

4.4 Vegetation

Plant communities are assemblages of plant species that occur together in the same area and are defined by species composition and relative abundance. Most of the natural vegetation in the Project area is a strip of riparian forest between the American River and the levee. Higher on the banks of the river this vegetation is dominated by native oaks (*Quercus lobata*, *Q. agrifolia*) with an understory of blackberry (*Rubus armeniacus*, *R. ursinus*) brambles or California wild grape (*Vitis californica*). Lower on the banks the trees are more dominated by box elder (*Acer negundo*), Fremont cottonwood (*Populus fremontii* ssp. *fremontii*), willows (*Salix* spp.), and both native and introduced sycamores (*Platanus* spp.).

The levee consists mostly of highly managed vegetation on the levee slopes with gravel roads on the top. Vegetation is kept free of trees and shrubs, so that only low herbaceous vegetation is present. Vegetation on the levee is regularly mown. Photographs are in Appendix D. A list of plants observed at data points is in **Appendix E**.

Parts of the Project area on the land-side of the levee consist mostly of urban development. The west end of the Project area contains the end of 28th Street through Sutter Landing Regional Park and an adjacent parking lot. The east end includes the parking lot at Glenn Hall Park. A grassy field on the land side of the levee is included near the center of the Project area.

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CHAPTER 5
Results

5.1 Aquatic Resources

The aquatic resources delineation identified approximately 8.20 acres of aquatic resources in the Project area. Aquatic resources were classified using the *Classification of Wetlands and Deepwater Habitats of the United States* ("Cowardin Classification") (FGDC, 2013). Details are provided in **Table 1** and described below. **Figure 3** shows the location and extent of the aquatic resources. The Aquatic Resources Spreadsheet is in **Appendix F**.

TABLE 1
AQUATIC RESOURCES

Aquatic Resource (Map ID)	Cowardin Classification	Acres (linear feet)
Waters		
American River	Main Channel: (Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded, R2UBH)	4.68 (2,615)
	Waters Total:	**4.68 (2,615)**
Wetlands		
Forested Wetland	Palustrine, Forested, Seasonally Flooded (PFOC)	2.33
Scrub-shrub Wetland	Palustrine, Scrub-shrub, Seasonally Flooded (PSSC)	1.19
	Wetlands Total:	**3.52**
	Grand Total:	**8.20 (2,615)**

SOURCE: ESA 2021

Waters

American River

The American River is a perennial watercourse. The bed in the Project area consists of substrate ranging in size from mud to cobble. OHWM indicators in the field approximately matched the location of the 18,500 cfs flow elevation (**Appendix D**, photo 7), and that elevation was used to delineate the OHWM boundary (see Chapter 2.3).

Most of the river is unvegetated, or has sparse submerged or aquatic floating vegetation along the margins. Areas below the 18,500 cfs OHWM elevation with at least 5 percent vegetation cover are identified as wetlands below the OHWM and are discussed below.

Wetlands

Forested Wetland

Vegetated areas dominated by mature trees below the OHWM of the American River are mapped as forested wetland. Some of the forested wetland is on a level bench and some is on the sloped banks of the river. Much of the soil in the forested wetland is underlain by rip-rap installed by a flood protection project in the past. Soils consist of relatively recently-deposited alluvial silt loams, with redoximorphic concentrations beginning about 3–6 inches below the surface. At data points 5 and 7 either the concentrations were not abundant enough, or the matrix was not depleted enough, to meet the typical hydric soil indicators. Recently developed wetlands are a known problematic hydric soil (USACE, 2008a) and hydric soils were concluded based on 1) observations of redoximorphic concentrations, 2) location below the approximate minimum 2-year recurrence flood plain of the river, and 3) presence of both hydric vegetation and signs of wetland hydrology.

The forested wetland has a plant community dominated by riparian trees including Fremont cottonwood (FAC), box elder (FACW), western sycamore (FAC; *Platanus racemosa*), Oregon ash (FACW; *Fraxinus latifolia*), and arroyo willow (FACW; *Salix lasiolepis*). Much of the forested wetland has a well-developed understory/shrub layer dominated by both native and introduced blackberry (FAC) and California grape (FACU; *Vitis californica*). Whiteroot sedge (FAC; *Carex barbarae*) and beardless wild-rye (FAC; *Elymus triticoides*) are common in the herb layer. Hydrology indicators were the FAC-neutral test, riverine drift deposits, and the data indicating the area below the 18,500 cfs elevation floods at least every two years on average.

Scrub-Shrub Wetland

The scrub-shrub wetland is in a similar landscape position as the forested wetland but has more exposed rip-rap at the surface and no level benches. Woody vegetation has at least approximately 30% cover but is mostly less than 20 feet tall, the standard used in the Cowardin system (FGDC, 2013). Trees are sparser and smaller than in the forested wetland and sandbar willow (FACW; *Salix exigua*), a species more tolerant of poor soil conditions, is more common. Other woody and herbaceous vegetation common in the forested wetland is also present, but at less cover, and there is greater cover of ruderal herbaceous species.

Path: U:\GIS\GIS\Projects\16xxxx\D160092_17_LAR_C3\03_MXDs_Projects\WD\Site1_1\Fig3a_Results.mxd_EPimentel_1/31/2022

SOURCE: USDA Imagery, 2018; ESA, 2022

Coordinate System: North American Datum 1983
Projection: Lambery Conformal Conic
Datum: California State Plane Zone II, US Feet

ESA

N

0 300
Feet
1 inch = 300 feet

Study Area (30.52 ac)
OHWM (18,500cfs WSE)
Reference Points

Sampling Points
Upland
Wetland

Aquatic Features
Forested Wetland (2.33 ac; 101,595 sq ft)
Scrub-shrub Wetland (1.19 ac; 51,888 sq ft)
Lower American River (4.68 ac; 203,769 sq ft; 2,615 linear ft)

American River Common Features Contract 3A

Figure 3a
Aquatic Resources Delineation
Delineated by: Chuck Hughes&Amanda Segura-Moon
Mapping by: Eryn Pimentel
Created on: January 31, 2022

Path: U:\GIS\GIS\Projects\16xxxx\D160092_17 LAR C3\03 MXDs ProjectsWD\Site1_11Fig3b Results.mxd, EPimentel 1/31/2022

SOURCE: USDA Imagery, 2018; ESA, 2022

Coordinate System: North American Datum 1983
Projection: Lambery Conformal Conic
Datum: California State Plane Zone II, US Feet

0 300
Feet
1 inch = 300 feet

Study Area (30.52 ac)
OHWM (18,500cfs WSE)
Reference Points

Sampling Points
Upland
Wetland

Aquatic Features
Forested Wetland (2.33 ac; 101,595 sq ft)
Scrub-shrub Wetland (1.19 ac; 51,888 sq ft)
Lower American River (4.68 ac; 203,769 sq ft; 2,615 linear ft)

American River Common Features Contract 3A

Figure 3b
Aquatic Resources Delineation
Delineated by: Chuck Hughes&Amanda Segura-Moon
Mapping by: Eryn Pimentel
Created on: January 31, 2022

Path: U:\GIS\GIS\Projects\16xxx\D160092_17_LAR_C3\03_MXDs_Projects\WDIS\te1_1\Fig3c_Results.mxd, EPimentel 1/31/2022

SOURCE: USDA Imagery, 2018; ESA, 2022

Coordinate System: North American Datum 1983
Projection: Lambery Conformal Conic
Datum: California State Plane Zone II, US Feet

ESA

N

0 300
Feet
1 inch = 300 feet

Study Area (30.52 ac)
OHWM (18,500cfs WSE)
Reference Points

Sampling Points
Upland
Wetland

Aquatic Features
Forested Wetland (2.33 ac; 101,595 sq ft)
Scrub-shrub Wetland (1.19 ac; 51,888 sq ft)
Lower American River (4.68 ac; 203,769 sq ft; 2,615 linear ft)

American River Common Features Contract 3A

Figure 3c
Aquatic Resources Delineation
Delineated by: Chuck Hughes&Amanda Segura-Moon
Mapping by: Eryn Pimentel
Created on: January 31, 2022

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5.2 Regulatory Analysis

Waters of the U.S.

After the aquatic resources were delineated, all features were evaluated to determine whether they may be regulated under the CWA, using the parameters set forth under the current regulations defining waters of the U.S. **Table 2** summarizes the results of this assessment for all aquatic resources in the Project area.

TABLE 2
APPLICATION OF THE "WATERS OF THE UNITED STATES" DEFINITION TO AQUATIC RESOURCES

Aquatic Resource	Waters of the U.S. (acres)	Excluded (acres)	Rationale
Waters			
American River	4.68	—	Determined by the Sacramento District of the USACE (2021) to be a navigable water (33 CFR [2014 edition] 328.3(a)(1)).
Wetlands			
Forested Wetland	2.33	—	Adjacent wetland, bordering a navigable water (33 CFR [2014 edition] 328.3(a)(7)).
Scrub-Shrub Wetland	1.19	—	Adjacent wetland, bordering a navigable water (33 CFR [2014 edition] 328.3(a)(7)).
Total:	**8.20**	—	

American River

The American River in the Project area is defined as a navigable water by the Sacramento District of the USACE (2021). The approximate upper limit of navigability is near Bradshaw Road, several miles upstream. Navigable waterways that were, are, or may be used in interstate or foreign commerce are waters of the U.S. (33 CFR 328.3(a)(1)).

Forested Wetland, Scrub-Shrub Wetland

These wetlands are below the OHWM of the American River. The wetlands border the American River, and therefore meet the definition of adjacent wetlands (33 CFR 328.3(c)). Adjacent wetlands are waters of the U.S. (33 CFR 328.3(a)(7)).

Waters of the State

Aquatic resources that qualify as waters of U.S also qualify as waters of the state, therefore all of the aquatic resources in the Project area are waters of the state.

5.3 Conclusions

In total, 8.20 acres of aquatic resources are present in the Project area. All of the aquatic resources meet criteria as both waters of the U.S. and waters of the state.

This report documents the delineation of the boundaries of aquatic resources in the Project area, based on the best professional judgment of ESA investigators. All conclusions presented should be considered preliminary and subject to change pending review by the USACE and/or State of California.

CHAPTER 6
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Appendix A
Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Arid West Region
Routine Wetland Determination
(September 2008 V2.0 COE Arid West Wetlands Delineation Manual)

Project/Site: Contract 3A City/County: Sacramento County Sampling Date: October 28, 2021
Applicant/Owner: SAFCA State: CA Sampling Point: **1**
Investigator(s): Chuck Hughes and Amanda Segura-Moon Section, Township, Range: See Report
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex-linear Slope (%): 0
Subregion (LRR): C Lat: See Report Long: Datum:
Soil Map Unit Name: Columbia sandy loam, drained, 0–2% slopes NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of the year? Yes ☐ No ☒ (If no, explain in remarks.)
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ Naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐	No ☒	
Hydric Soil Present?	Yes ☐	No ☒	Is the Sampled Area
Wetland Hydrology Present?	Yes ☐	No ☒	within a Wetland? Yes ☐ No ☒

Remarks: Previous wet season was much drier than normal, but over six inches of precipitation recorded in the week prior to fieldwork.

VEGETATION

Tree Stratum: ((Plot size:_____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:			
Sapling/Shrub Stratum: (Plot size:__6 ft radius___)			
1. *Sambucus caerulea*	7	D	FACU
2. *Rosa californica*	1		FAC
3.			
4.			
5.			
Total Cover:	8		
Herb Stratum: (Plot size:___ 6 ft radius _____)			
1. *Bromus diandrus*	60	D	UPL
2. *Elymus triticoides*	5		FAC
3. *Galium aparine*	5		FACU
4. *Raphanus rahanistrum*	3		UPL
5.			
6.			
7.			
8.			
Total Cover:	73		
Woody Vine Stratum: (Plot size:_____)			
1.			
2.			
Total Cover:			

% Bare Ground in Herb Stratum 30% % Cover of Biotic Crust 0%

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL Species: _____ x 1 = _____
FACW Species _____ x 2 = _____
FAC Species _____ x 3 = _____
FACU Species _____ x 4 = _____
UPL Species _____ x 5 = _____
Column Totals: _____ (A) _____ (B)
Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
☐ Dominance Test is >50%
☐ Prevalence Index is ≤3.0[1]
☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of Hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks:

SOIL

Sampling Point: **1**

Profile Description: (Describe the depth needed to document the Indicator or confirm the absence of Indicators.)

Depth	Matrix		Redox Features					
Inches	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/3	100					Sandy loam	
4-16	10YR 3/4	100					Sandy loam	

[1]Type : C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) **(LRR C)**
- ☐ 1 cm Muck (A9) **(LRR D)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface water (A1)
- ☐ High water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible-Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections, if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region
Routine Wetland Determination
(September 2008 V2.0 COE Arid West Wetlands Delineation Manual)

Project/Site: Contract 3A City/County: Sacramento County Sampling Date: October 28, 2021
Applicant/Owner: SAFCA State: CA Sampling Point: **2**
Investigator(s): Chuck Hughes and Amanda Segura-Moon Section, Township, Range: See Report
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave-linear Slope (%): 0
Subregion (LRR): C Lat: See Report Long: Datum:
Soil Map Unit Name: Columbia sandy loam, drained, 0–2% slopes NWI classification: PFOC
Are climatic/hydrologic conditions on the site typical for this time of the year? Yes ☐ No ☒ (If no, explain in remarks.)
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ Naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes ☒ No ☐
Hydric Soil Present? Yes ☒ No ☐
Wetland Hydrology Present? Yes ☒ No ☐
Is the Sampled Area within a Wetland? Yes ☒ No ☐

Remarks: Previous wet season was much drier than normal, but over six inches of precipitation recorded in the week prior to fieldwork.

VEGETATION

Tree Stratum: ((Plot size:__ 6 ft radius _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus fremontii*	20	D	FAC
2. *Platanus racemosa*	20	D	FAC
3. *Acer negundo*	25	D	FACW
4. *Fraxinus latifolia*	5		FACW
Total Cover:	70		
Sapling/Shrub Stratum: (Plot size:_____)			
1.			
2.			
3.			
4.			
5.			
Total Cover:			
Herb Stratum: (Plot size:_____ 6 ft radius _____)			
1. *Carex barbarae*	2		FAC
2. *Galium aparine*	1		FACU
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	3		
Woody Vine Stratum: (Plot size:_____)			
1.			
2.			
Total Cover:			

% Bare Ground in Herb Stratum 97% % Cover of Biotic Crust 0%

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL Species: x 1 =
FACW Species x 2 =
FAC Species x 3 =
FACU Species x 4 =
UPL Species x 5 =
Column Totals: (A) (B)
Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
☒ Dominance Test is >50%
☐ Prevalence Index is ≤3.0[1]
☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of Hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks:

SOIL Sampling Point: **2**

Profile Description: (Describe the depth needed to document the Indicator or confirm the absence of Indicators.)

Depth	Matrix		Redox Features					
Inches	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR 3/3	100					Silt loam	
3-10	10YR 4/2	90	10YR 4/6	10	C	M/ PL	Silt loam	
10-16	10YR 4/4	100					Sandy clay loam	

[1]Type : C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) **(LRR C)**
- ☐ 1 cm Muck (A9) **(LRR D)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☒ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ☒ **No** ☐

Remarks: Could be buried soil at 10 inches.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface water (A1)
- ☐ High water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☒ Other (Explain in Remarks)

Secondary Indicators (2or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible-Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☒ FAC-Neutral test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
Water Table Present? Yes ☐ No ☒ Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____

Wetland Hydrology Present? Yes ☒ **No** ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections, if available:

Remarks: American River water surface about 18 inches in elevation below this data point during fieldwork. Data point is below OHWM of river, mapped at the 18,500 cfs elevation where river is known to reach about at least every other year on average.

WETLAND DETERMINATION DATA FORM – Arid West Region
Routine Wetland Determination
(September 2008 V2.0 COE Arid West Wetlands Delineation Manual)

Project/Site: Contract 3A City/County: Sacramento County Sampling Date: October 28, 2021
Applicant/Owner: SAFCA State: CA Sampling Point: **3**
Investigator(s): Chuck Hughes and Amanda Segura-Moon Section, Township, Range: See Report
Landform (hillslope, terrace, etc.): Field Local relief (concave, convex, none): linear-linear Slope (%): 3
Subregion (LRR): C Lat: See Report Long: Datum:
Soil Map Unit Name: Columbia sandy loam, drained, 0–2% slopes NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of the year? Yes ☐ No ☒ (If no, explain in remarks.)
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ Naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐	No ☒	
Hydric Soil Present?	Yes ☐	No ☒	Is the Sampled Area
Wetland Hydrology Present?	Yes ☐	No ☒	within a Wetland? Yes ☐ No ☒

Remarks: Previous wet season was much drier than normal, but over six inches of precipitation recorded in the week prior to fieldwork.

VEGETATION

Tree Stratum: ((Plot size:_____)	**Absolute % Cover**	**Dominant Species?**	**Indicator Status**
1.			
2.			
3.			
4.			
Total Cover:			
Sapling/Shrub Stratum: (Plot size:_____)			
1.			
2.			
3.			
4.			
5.			
Total Cover:			
Herb Stratum: (Plot size:___ 6 ft radius _____)			
1. *Centaurea solstitialis*	10		UPL
2. *Bromus hordeaceus*	40	D	FACU
3. *Avena* sp.	40	D	UPL
4. *Trifolium hirtum*	10		UPL
5.			
6.			
7.			
8.			
Total Cover:	100		
Woody Vine Stratum: (Plot size:_____)			
1.			
2.			
Total Cover:			

% Bare Ground in Herb Stratum 5% % Cover of Biotic Crust 0%

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL Species: x 1 =
FACW Species x 2 =
FAC Species x 3 =
FACU Species x 4 =
UPL Species x 5 =
Column Totals: (A) (B)
Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
- ☐ Dominance Test is >50%
- ☐ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of Hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks:

SOIL Sampling Point: **3**

Profile Description: (Describe the depth needed to document the Indicator or confirm the absence of Indicators.)

Depth	Matrix		Redox Features					
Inches	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 4/2	100					Clay loam	
4-10	10YR 4/4	97	10YR 4/6	3	C	M	Clay loam	

[1]Type : C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) **(LRR C)**
- ☐ 1 cm Muck (A9) **(LRR D)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ **No** ☒

Remarks: Geotextile encountered at 10 inches. It was likely installed when the nearby shrubs were planted. This area was used for construction staging in the past based on aerial photographs. Soil horizons above geotextile have some mixed textures and do not appear natural.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface water (A1)
- ☐ High water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible-Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____

Wetland Hydrology Present? Yes ☐ **No** ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections, if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region
Routine Wetland Determination
(September 2008 V2.0 COE Arid West Wetlands Delineation Manual)

Project/Site: Contract 3A City/County: Sacramento County Sampling Date: October 28, 2021
Applicant/Owner: SAFCA State: CA Sampling Point: **4**
Investigator(s): Chuck Hughes and Amanda Segura-Moon Section, Township, Range: See Report
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): convex-linear Slope (%): 10
Subregion (LRR): C Lat: See Report Long: Datum:
Soil Map Unit Name: Columbia-Urban land complex, drained, 0–2% slopes NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of the year? Yes ☐ No ☒ (If no, explain in remarks.)
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ Naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐	No ☒	
Hydric Soil Present?	Yes ☐	No ☒	Is the Sampled Area
Wetland Hydrology Present?	Yes ☐	No ☒	within a Wetland? Yes ☐ No ☒

Remarks: Previous wet season was much drier than normal, but over six inches of precipitation recorded in the week prior to fieldwork.

VEGETATION

Tree Stratum: ((Plot size:__ 6 ft radius _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Robinia pseudoacacia*	30	D	FACU
2.			
3.			
4.			
Total Cover:	30		

Sapling/Shrub Stratum: (Plot size:_ 6 ft radius ____)			
1. *Sambucus caerulea*	1		FACU
2.			
3.			
4.			
5.			
Total Cover:	1		

Herb Stratum: (Plot size:__ 6 ft radius _____)			
1. *Bromus diandrus*	40	D	UPL
2. *Hordeum murinum* ssp. *leporinum*	60	D	UPL
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	100		

Woody Vine Stratum: (Plot size:_____)			
1.			
2.			
Total Cover:			

% Bare Ground in Herb Stratum 10% % Cover of Biotic Crust 0%

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL Species: _____ x 1 = _____
FACW Species _____ x 2 = _____
FAC Species _____ x 3 = _____
FACU Species _____ x 4 = _____
UPL Species _____ x 5 = _____
Column Totals: _____ (A) _____ (B)
Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
☐ Dominance Test is >50%
☐ Prevalence Index is ≤3.0[1]
☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of Hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks:

SOIL Sampling Point: **4**

Profile Description: (Describe the depth needed to document the Indicator or confirm the absence of Indicators.)

Depth	Matrix		Redox Features					
Inches	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	--							Undecomposed organic matter
3-14	10YR 3/3	100					Fine sandy loam	

[1]Type : C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) **(LRR C)**
- ☐ 1 cm Muck (A9) **(LRR D)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ **No** ☒

Remarks: Hay may have placed on the surface in the past.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface water (A1)
- ☐ High water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible-Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____

Wetland Hydrology Present? Yes ☐ **No** ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections, if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region
Routine Wetland Determination
(September 2008 V2.0 COE Arid West Wetlands Delineation Manual)

Project/Site: Contract 3A City/County: Sacramento County Sampling Date: October 28, 2021
Applicant/Owner: SAFCA State: CA Sampling Point: **5**
Investigator(s): Chuck Hughes and Amanda Segura-Moon Section, Township, Range: See Report
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): concave-linear Slope (%): 7
Subregion (LRR): C Lat: See Report Long: Datum:
Soil Map Unit Name: Columbia sandy loam, drained, 0–2% slopes NWI classification: PFOC
Are climatic/hydrologic conditions on the site typical for this time of the year? Yes ☐ No ☒ (If no, explain in remarks.)
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ Naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒	No ☐	
Hydric Soil Present?	Yes ☒	No ☐	Is the Sampled Area
Wetland Hydrology Present?	Yes ☒	No ☐	within a Wetland? Yes ☒ No ☐

Remarks: Previous wet season was much drier than normal, but over six inches of precipitation recorded in the week prior to fieldwork.

VEGETATION

Tree Stratum: ((Plot size:_____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover:			
Sapling/Shrub Stratum: (Plot size:_ 6 ft radius ____)			
1. *Acer negundo*	15	D	FACW
2.			
3.			
4.			
5.			
Total Cover:	15		
Herb Stratum: (Plot size:___ 6 ft radius _____)			
1. *Rubus ursinus*	7	D	FAC
2. *Carex barbarae*	2		FAC
3. *Bromus diandrus*	1		UPL
4. *Carduus pycnocephalus*	1		UPL
5. *Azolla filiculoides*	3	D	OBL
6.			
7.			
8.			
Total Cover:	14		
Woody Vine Stratum: (Plot size:_____)			
1.			
2.			
Total Cover:			

% Bare Ground in Herb Stratum 95% % Cover of Biotic Crust 0%

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL Species: x 1 =
FACW Species x 2 =
FAC Species x 3 =
FACU Species x 4 =
UPL Species x 5 =
Column Totals: (A) (B)
Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
☒ Dominance Test is >50%
☐ Prevalence Index is ≤3.0[1]
☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of Hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks:

SOIL Sampling Point: **5**

Profile Description: (Describe the depth needed to document the Indicator or confirm the absence of Indicators.)

Depth	Matrix		Redox Features					
Inches	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10YR 4/3	100					Loamy sand	
3-10	10YR 4/3	95	10YR 2/2	5	C	M	Loamy sand	

[1]Type : C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) **(LRR C)**
- ☐ 1 cm Muck (A9) **(LRR D)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☒ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ☒ **No** ☐

Remarks: Rip-rap below 10 inches. Soil is recent alluvium and may not have had time for hydric soil indicators to develop.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface water (A1)
- ☐ High water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☒ Other (Explain in Remarks)

Secondary Indicators (2or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☒ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible-Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☒ FAC-Neutral test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
Water Table Present? Yes ☐ No ☒ Depth (inches): _____
Saturation Present? Yes ☐ No ☒ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ☒ **No** ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections, if available:

Remarks: American River water surface about 24 inches in elevation below this data point during fieldwork. Data point is below OHWM of river, mapped at the 18,500 cfs elevation where river is known to reach about at least every other year on average. Small woody debris arranged into drift deposits by recent high water event that reached this data point.

WETLAND DETERMINATION DATA FORM – Arid West Region
Routine Wetland Determination
(September 2008 V2.0 COE Arid West Wetlands Delineation Manual)

Project/Site: Contract 3A City/County: Sacramento County Sampling Date: October 28, 2021
Applicant/Owner: SAFCA State: CA Sampling Point: **6**
Investigator(s): Chuck Hughes and Amanda Segura-Moon Section, Township, Range: See Report
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): convex-linear Slope (%): 2
Subregion (LRR): C Lat: See Report Long: Datum:
Soil Map Unit Name: Rossmoor-Urban land complex, 0–2% slopes NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of the year? Yes ☐ No ☒ (If no, explain in remarks.)
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ Naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☐	No ☒			
Hydric Soil Present?	Yes ☐	No ☒	Is the Sampled Area		
Wetland Hydrology Present?	Yes ☐	No ☒	within a Wetland?	Yes ☒	No ☐

Remarks: Previous wet season was much drier than normal, but over six inches of precipitation recorded in the week prior to fieldwork.

VEGETATION

Tree Stratum: ((Plot size: 12 ft radius)

	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus lobata*	35	D	FACU
2. *Robinia pseudoacacia*	20	D	FACU
3.			
4.			
Total Cover:	55		

Sapling/Shrub Stratum: (Plot size:)

1.			
2.			
3.			
4.			
5.			
Total Cover:			

Herb Stratum: (Plot size: 6 ft radius)

1. *Bromus diandrus*	30	D	UPL
2. *Rubus ursinus*	5		FAC
3. *Rubus armeniacus*	12		FAC
4. *Hordeum murinum ssp. leporinum*	40	D	UPL
5. *Cynodon dactylon*	1		FACU
6.			
7.			
8.			
Total Cover:	88		

Woody Vine Stratum: (Plot size:)

1.			
2.			
Total Cover:			

% Bare Ground in Herb Stratum 35% % Cover of Biotic Crust 0%

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL Species:	x 1 =	
FACW Species	x 2 =	
FAC Species	x 3 =	
FACU Species	x 4 =	
UPL Species	x 5 =	
Column Totals: (A)	(B)	

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
- ☐ Dominance Test is >50%
- ☐ Prevalence Index is ≤3.0[1]
- ☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of Hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks:

SOIL Sampling Point: **6**

Profile Description: (Describe the depth needed to document the Indicator or confirm the absence of Indicators.)

Depth	Matrix		Redox Features					
Inches	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/2	100					Clay loam	
6-12	10YR 4/3	100					Fine sandy clay loam	

[1]Type : C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) **(LRR C)**
- ☐ 1 cm Muck (A9) **(LRR D)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ☐ **No** ☒

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface water (A1)
- ☐ High water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (2or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible-Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
Water Table Present? Yes ☐ No ☒ Depth (inches): _____
Saturation Present? Yes ☐ No ☒ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ☐ **No** ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections, if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region
Routine Wetland Determination
(September 2008 V2.0 COE Arid West Wetlands Delineation Manual)

Project/Site: Contract 3A City/County: Sacramento County Sampling Date: October 28, 2021
Applicant/Owner: SAFCA State: CA Sampling Point: 7
Investigator(s): Chuck Hughes and Amanda Segura-Moon Section, Township, Range: See Report
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): concave-linear Slope (%): 2
Subregion (LRR): C Lat: See Report Long: Datum:
Soil Map Unit Name: Rossmoor-Urban land complex, 0–2% slopes NWI classification: PFOC
Are climatic/hydrologic conditions on the site typical for this time of the year? Yes ☐ No ☒ (If no, explain in remarks.)
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ Soil ☐, Or Hydrology ☐ Naturally problematic? (If needed, explain any answers in remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ☒	No ☐	
Hydric Soil Present?	Yes ☒	No ☐	Is the Sampled Area
Wetland Hydrology Present?	Yes ☒	No ☐	within a Wetland? Yes ☐ No ☒

Remarks: Previous wet season was much drier than normal, but over six inches of precipitation recorded in the week prior to fieldwork.

VEGETATION

Tree Stratum: ((Plot size:__6 ft radius_____)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix lasiolepis*	3		FACW
2.			
3.			
4.			
Total Cover:	3		
Sapling/Shrub Stratum: (Plot size:_6 ft radius____)			
1. *Fraxinus latifolia*	3	D	FACW
2. *Acer negundo*	2	D	FACW
3.			
4.			
5.			
Total Cover:	5		
Herb Stratum: (Plot size:__6 ft radius_____)			
1. *Rumex crispus*	3		FAC
2. *Artemisia douglasiana*	5		FAC
3. *Verbena litoralis*	3		UPL
4. *Carex barbarae*	15		FAC
5. *Elymus triticoides*	45	D	FAC
6. *Rubus armeniacus*	5		FAC
7. *Cynodon dactylon*	10		FACU
8.			
Total Cover:	86		
Woody Vine Stratum: (Plot size:__6 ft radius_____)			
1. *Vitis californica*	30	D	FACU
2.			
Total Cover:			

% Bare Ground in Herb Stratum 25% % Cover of Biotic Crust 0%

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)

Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL Species: x 1 =
FACW Species x 2 =
FAC Species x 3 =
FACU Species x 4 =
UPL Species x 5 =
Column Totals: (A) (B)
Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:
☒ Dominance Test is >50%
☐ Prevalence Index is ≤3.0[1]
☐ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of Hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks:

SOIL Sampling Point: **7**

Profile Description: (Describe the depth needed to document the Indicator or confirm the absence of Indicators.)

Depth	Matrix		Redox Features					
Inches	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/3	100					Sandy loam	
6-13	10YR 4/3	98	7.5YR 3/2	2	C	M	Clay loam	

[1]Type : C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) **(LRR C)**
- ☐ 1 cm Muck (A9) **(LRR D)**
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☒ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ **No** ☐

Remarks: Recent alluvium, hydric indicators may not have had time to form.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ☐ Surface water (A1)
- ☐ High water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (**Nonriverine**)
- ☐ Sediment Deposits (B2) (**Nonriverine**)
- ☐ Drift Deposits (B3) (**Nonriverine**)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☒ Other (Explain in Remarks)

Secondary Indicators (2or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible-Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☒ FAC-Neutral test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____

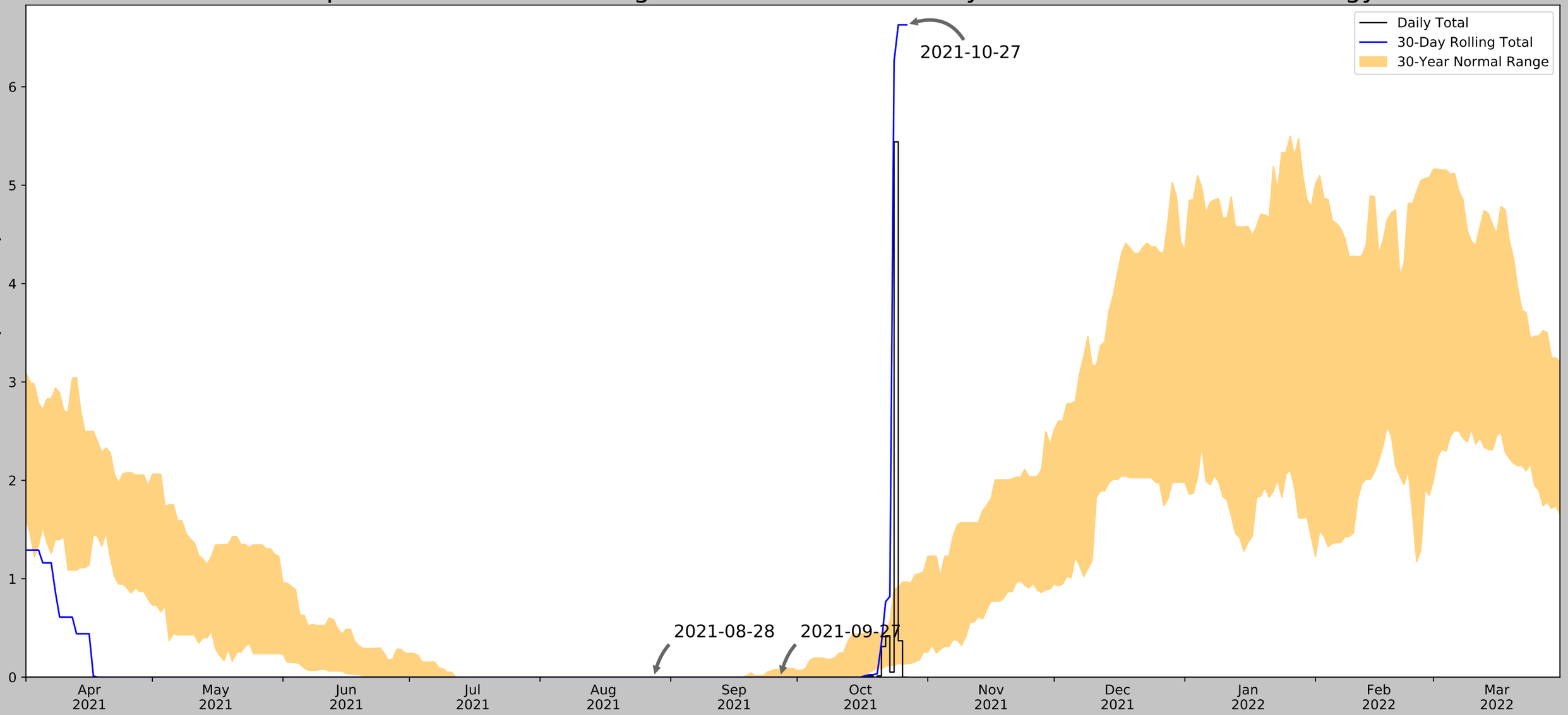
Wetland Hydrology Present? Yes ☒ **No** ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections, if available:

Remarks: Data point is below OHWM of river, mapped at the 18,500 cfs elevation where river is known to reach about at least every other year on average.

Appendix B
Antecedent Precipitation Tool Output

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	38.584665, -121.445025
Observation Date	2021-10-27
Elevation (ft)	39.77
Drought Index (PDSI)	Extreme drought (2021-09)
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-10-27	0.138189	0.966535	6.629921	Wet	3	3	9
2021-09-27	0.0	0.079134	0.0	Normal	2	2	4
2021-08-28	0.0	0.0	0.0	Normal	2	1	2
Result							Wetter than Normal - 15

Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
SACRAMENTO 5 ESE	38.5556, -121.4169	38.058	2.518	1.712	1.137	11352	89
SACRAMENTO 2.0 SE	38.5499, -121.4374	34.121	2.437	5.649	1.11	1	1

Appendix C
Soil Resource Report

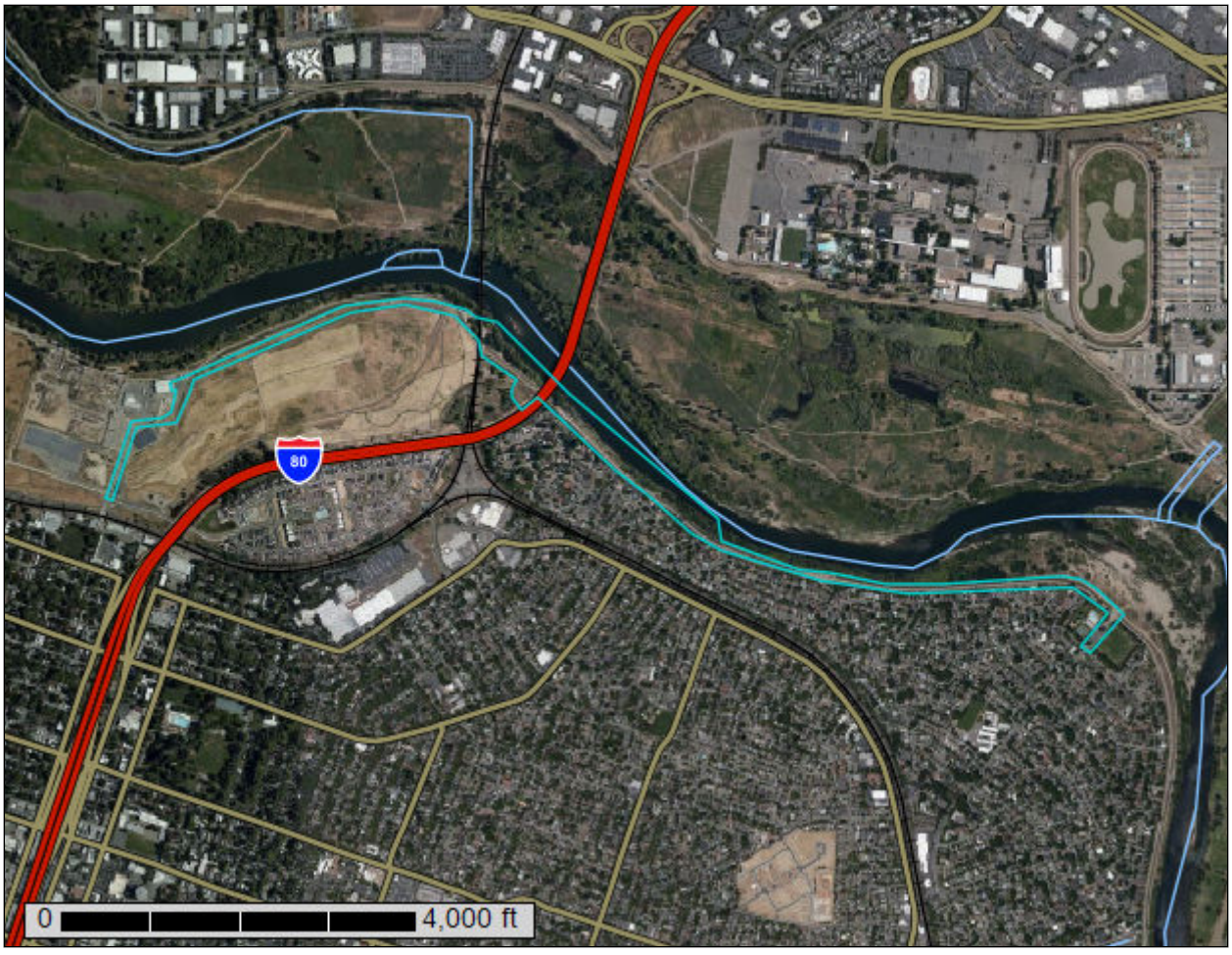
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Sacramento County, California



October 29, 2021

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sacramento County, California
Survey Area Data: Version 20, Sep 3, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 8, 2019—Jun 1, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
117	Columbia sandy loam, drained, 0 to 2 percent slopes	8.9	17.8%
124	Columbia-Urban land complex, drained, 0 to 2 percent slopes	6.3	12.6%
136	Dumps	10.1	20.2%
203	Riverwash	2.1	4.2%
205	Rossmoor-Urban land complex, 0 to 2 percent slopes	17.1	34.1%
247	Water	5.6	11.1%
Totals for Area of Interest		**50.2**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Sacramento County, California

117—Columbia sandy loam, drained, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhlr
Elevation: 10 to 150 feet
Mean annual precipitation: 12 to 25 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 230 to 340 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Columbia and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Columbia

Setting

Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

H1 - 0 to 11 inches: sandy loam
H2 - 11 to 60 inches: stratified loamy sand to silt loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: A
Hydric soil rating: Yes

Minor Components

Columbia, clay substratum

Percent of map unit: 10 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread

Hydric soil rating: Yes

Cosumnes

Percent of map unit: 5 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Sailboat

Percent of map unit: 5 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Vina

Percent of map unit: 4 percent
Hydric soil rating: No

Unnamed, occasional flooded

Percent of map unit: 1 percent
Hydric soil rating: No

124—Columbia-Urban land complex, drained, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhlz
Elevation: 150 feet
Mean annual precipitation: 12 to 25 inches
Mean annual air temperature: 63 degrees F
Frost-free period: 230 to 340 days
Farmland classification: Not prime farmland

Map Unit Composition

Columbia and similar soils: 60 percent
Urban land: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Columbia

Setting

Landform: Flood plains, natural levees
Landform position (two-dimensional): Toeslope, summit
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

H1 - 0 to 11 inches: sandy loam

H2 - 11 to 43 inches: stratified loamy sand to silt loam
H3 - 43 to 64 inches: clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Rare
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 6.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: A/D
Hydric soil rating: Yes

Description of Urban Land

Typical profile

H1 - 0 to 6 inches: variable

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydric soil rating: No

Minor Components

Cosumnes

Percent of map unit: 3 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Rossmoor

Percent of map unit: 3 percent
Hydric soil rating: No

Sailboat

Percent of map unit: 3 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Unnamed, unburied surface

Percent of map unit: 1 percent
Hydric soil rating: No

136—Dumps

Map Unit Composition

Dumps: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dumps

Setting

Down-slope shape: Linear
Across-slope shape: Linear

Typical profile

H1 - 0 to 60 inches: variable

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydric soil rating: No

203—Riverwash

Map Unit Setting

National map unit symbol: hhpj
Elevation: 20 to 280 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 345 days
Farmland classification: Not prime farmland

Map Unit Composition

Riverwash: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Riverwash

Setting

Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Gravelly alluvium

Typical profile

H1 - 0 to 60 inches: variable

Properties and qualities

Slope: 0 to 2 percent
Runoff class: Negligible
Depth to water table: About 0 inches
Frequency of flooding: FrequentNone

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8w
Ecological site: R017XY903CA - Stream Channels and Floodplains
Hydric soil rating: Yes

Minor Components

Xerofluvents

Percent of map unit: 10 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

205—Rossmoor-Urban land complex, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hhpl
Elevation: 30 to 110 feet
Mean annual precipitation: 20 inches
Mean annual air temperature: 61 degrees F
Frost-free period: 275 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Rossmoor and similar soils: 55 percent
Urban land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rossmoor

Setting

Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Alluvium

Typical profile

H1 - 0 to 6 inches: fine sandy loam
H2 - 6 to 62 inches: fine sandy loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: A
Hydric soil rating: No

Description of Urban Land

Typical profile

H1 - 0 to 6 inches: variable

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydric soil rating: No

Minor Components

Columbia

Percent of map unit: 6 percent
Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Hydric soil rating: Yes

Americanos

Percent of map unit: 5 percent
Hydric soil rating: No

Unnamed, gravelly substratum

Percent of map unit: 2 percent
Hydric soil rating: No

Unnamed, unloamy sandamed

Percent of map unit: 2 percent
Hydric soil rating: No

247—Water

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

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Appendix D
Photographs

Photograph 1
View looking upstream along the toe of the levee. The shovel is at data point 6.

Photograph 2
View looking downhill from the toe of the levee. The shovel is at data point 6. The American River is in the background.

Photograph 3
View looking downstream in forested wetland. The shovel is at data point 7.

Photograph 4
View looking downhill from the upper bank of the American River. The shovel is at data point 1. The trees in the background are on a steep slope down to the river that begins a few feet past the data point.

Photograph 5
The shovel is at data point 2, on a low bench of forested wetland. The surface of the American River is visible in the background through the vegetation. The elevation of the water was about 18 inches below data point 2 during the fieldwork.

Photograph 5
The shovel is at data point 3. This gently sloped field on the land side of the levee may be used for staging. The levee is visible in the background.

Photograph 6

The shovel is at data point 4, on a high bench. Just past the data point there is a very steep slope of about 10 vertical feet. The 18,500 cfs flow elevation and OHWM of the American River is on the steep slope.

Photograph 7

View looking downstream of the steep slope below Photograph 6. The shovel is placed at the 18,500 cfs flow elevation, which was used as the OHWM of the American River and matches well with physical indicators such as a change in soil/ sediment characteristics, break in slope, and destruction of terrestrial vegetation visible to the right of the shovel.

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Appendix E
Plants Observed at Data Points

PLANTS OBSERVED

Family	Scientific Name	Common Name	Native/ Introduced	Wetland Indicator
FERNS				
Azollaceae	Azolla filiculoides	Water fern	N	OBL
EUDICOTS				
Adoxaceae	*Sambucus nigra* ssp. *caerulea*	Blue elderberry	N	FACU
Asteraceae	*Artemisia douglasiana*	Mugwort	N	FAC
	Carduus pycnocephalus ssp. *pycnocephalus*	Italian thistle	I	UPL
	Centaurea solstitialis	Yellow star-thistle	I	UPL
Brassicaceae	*Raphanus raphanistrum*	Wild radish	I	UPL
Fabaceae	*Trifolium hirtum*	Rose clover	I	UPL
	Robinia pseudoacacia	Black locust	I	FACU
Fagaceae	*Quercus lobata*	Valley Oak	N	FACU
Oleaceae	*Fraxinus latifolia*	Oregon ash	N	FACW
Platanaceae	*Platanus racemosa*	Western sycamore	N	FAC
Polygonaceae	*Rumex crispus*	Curly dock	I	FAC
Rosaceae	*Rosa californica*	California wild rose	N	FAC
	Rubus armeniacus	Himalayan blackberry	I	FAC
	Rubus ursinus	California blackberry	N	FAC
Rubiaceae	*Galium aparine*	Goose grass	N	FACU
Salicaceae	*Populus fremontii*	Fremont's cottonwood	N	FAC
	Salix lasiolepis	Arroyo willow	N	FACW
Sapindaceae	*Acer negundo*	Box elder	N	FACW
Vitaceae	*Vitus californica*	California grape	N	FACU
MONOCOTS				
Cyperaceae	*Carex barbarae*	Whiteroot sedge	N	FAC
Poaceae	*Avena* sp.	Wild oat	I	UPL
	Bromus diandrus	Ripgut grass	I	UPL
	Bromus hordeaceus	Soft chess	I	FACU
	Cynodon dactylon	Bermuda grass	I	FACU
	Elymus triticoides	Beardless wild rye	N	FACU
	Hordeum murinum ssp. *leporinum*	Foxtail barley	I	FACU

Appendix F
Aquatic Resources Spreadsheet

Waters_Name	State	Cowardin_Code	Meas_Type	Amount	Units	Waters_Type	Latitude	Longitude
American River	CALIFORNIA	R2UB	Area	4.68	ACRE	TNW	38.58603595880	-121.44599675500
Forested Wetland 1	CALIFORNIA	PFO	Area	0.84	ACRE	TNWW	38.58787792280	-121.44877805600
Forested Wetland 2	CALIFORNIA	PFO	Area	0.51	ACRE	TNWW	38.58650258250	-121.44697179400
Forested Wetland 3	CALIFORNIA	PFO	Area	0.98	ACRE	TNWW	38.58371713490	-121.44306446700
Scrub-Shrub Wetland 1	CALIFORNIA	PSS	Area	0.09	ACRE	TNWW	38.58701086460	-121.44756743000
Scrub-Shrub Wetland 2	CALIFORNIA	PSS	Area	1.1	ACRE	TNWW	38.58523008590	-121.44530687500

Appendix C

American River Watershed Common Features 2016 Project, American River Contract 3A Standard Assessment Methodology Analysis

ESA

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Sacramento, CA 95816
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esassoc.com

memorandum

date	January 21, 2022
to	Nate Martin and Bailey Hunter, USACE
cc	Dan Mielke, USACE; Bailey Hunter, USACE; Guy Romine, USACE; David Moldoff, DWR; Miles Claret, DWR; Dan Tibbitts, SAFCA; Melanie Saucier, SAFCA
from	Dave Beauchamp and Taylor Spaulding
subject	**American River Common Features (ARCF) 2016 Contract 3A: Draft Standard Assessment Methodology (SAM) Analysis**

Introduction

When the NMFS Biological Opinion (BO) for the ARCF General Reevaluation Report (GRR) was issued, September 15, 2015, specific project designs were not yet developed. Consequently, impacts to relevant fish taxa were analyzed at a feasibility level of design using "reasonable worst-case" parameters for SAM analysis (NMFS 2015, p. 174). The plan was to conduct project-specific SAM analyses once project designs were completed, to better evaluate impacts and use SAM results in the negotiation of appropriate mitigation for project actions (NMFS 2015, p. 180). The consultation for the ARCF GRR was reinitiated in 2020, and a new BO was issued by NMFS (2021). Because limitation in the SAM approach for assessing impacts became clear during the 2015 consultation and the 2020/2021 reinitiated consultation, NMFS will determine habitat impacts using a method that combines the SAM model and expected construction and mitigation footprints, as follows.

> "Once site-specific designs are completed, the SAM analysis will be run. The planned project footprint and scale of on-site mitigation will then be compared against the SAM analysis to determine accuracy of the analysis. In instances where on-site mitigation and impacts are determined by NMFS to not be represented properly by the SAM analysis, impacts will be calculated by projects footprints and impacts will be agreed upon between NMFS and the Corps." (NMFS 2021, p. 40).

Therefore, as part of this approach to assess project impacts, NMFS will assess SRA habitat values according to the SAM method of analysis and compare them to on-site compensation values based on project designs (NMFS, 2021, p. 56). The SAM model is also used by USACE to guide design of project elements that provide SRA habitat values, such as planting benches and instream woody material and to update the O&M Manual to ensure that the mitigation elements are meeting the criteria established in the Habitat Mitigation and Monitoring Plan (HMMP) with the goal of meeting SAM values by USACE (NMFS 2021, p. 108). USACE may revise the SAM model with involvement of the NMFS Central Valley Office (NMFS 2021, p. 111).

With the completion of 65% designs for American River Contract 3A, at the Lower American River (LAR), impacts can be analyzed using SAM parameters measured from the specific draft project design. Results of this updated SAM analysis are provided in the SAM Results section below.

The updated SAM analysis was conducted following the same methods as were described in the original NMFS BO (NMFS 2015), with a few small updates made in coordination with NMFS biologists during the analysis for LAR Contract 1. These updates are described in the Methods section below.

Methods

The first update was the inclusion of Winter-run Chinook salmon. Recent research indicates that some juvenile Winter-run Chinook salmon use the LAR for non-natal rearing habitat (Phillis et al. 2018). Little information exists about the seasonal timing of this habitat use and the default SAM life-history timing table for Winter-run Chinook salmon in the LAR shows no occurrence of any life stage. Consequently, the default SAM life-history timing table for Winter-run Chinook salmon in the section of the Sacramento River that includes the American River confluence (**Figure 1**) was used for this analysis. For all other Evolutionarily Significant Units (ESUs) their default SAM life-history timing tables for the LAR were used (Figure 1).

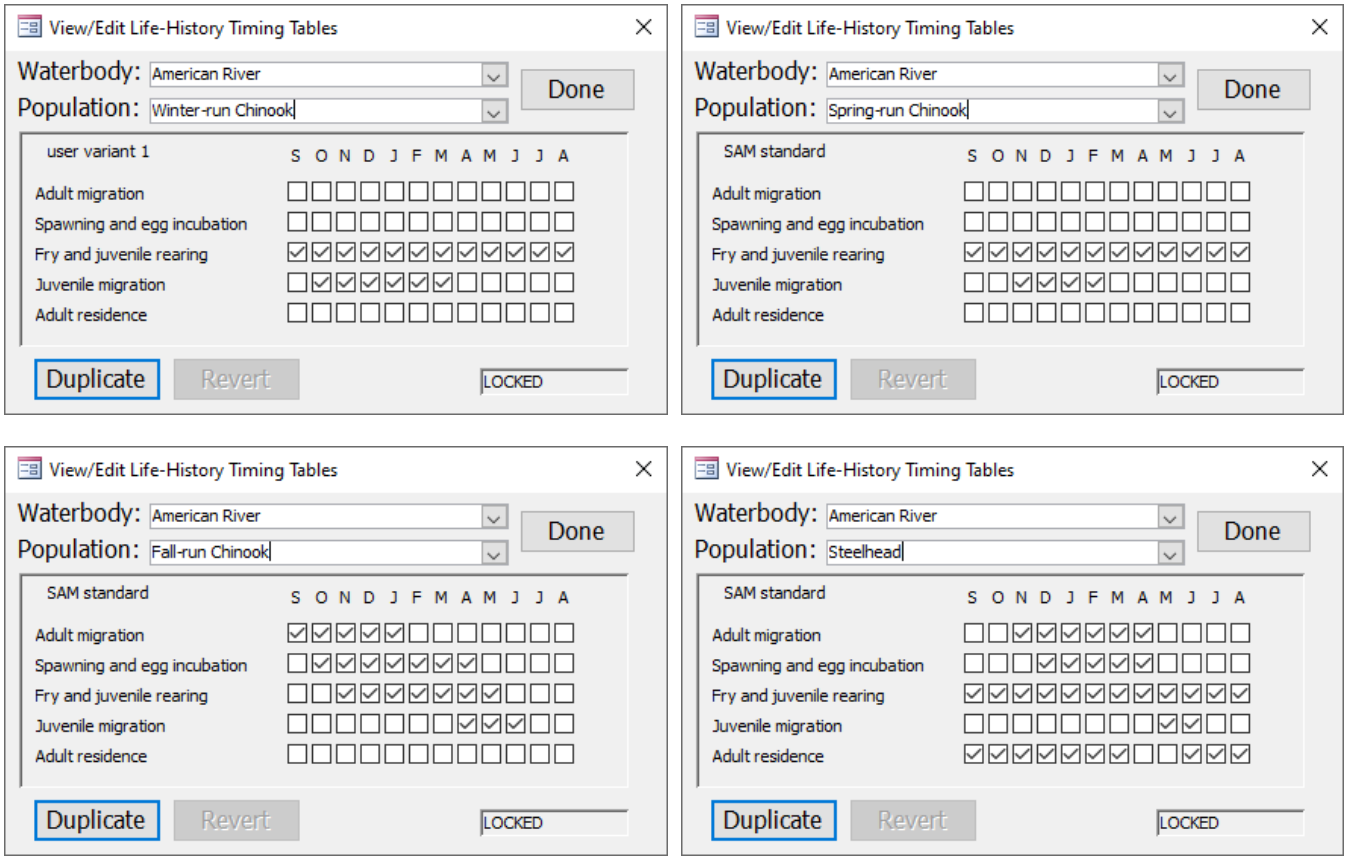

Figure 1
SAM Life-History Timing Tables Used in this Analysis

The second update was the addition of temporal change (decay) for Instream Structure in both existing and 65% design conditions. Decay of instream structure was estimated using the data compiled in Roni et al. (2015), with a logistic regression used to fit the data and produce estimates of remaining structure at years 0, 1, 5, 15, 25, and 50 (**Table 1**). These estimates were used to scale down the measured values of instream structure shoreline coverage (Tables 7 and 8) over time.

TABLE 1
ESTIMATES OF REMAINING INSTREAM STRUCTURE OVER THE 50-YEAR SAM MODELING PERIOD

Year	Percentage of Maximum Instream Structure Shoreline Coverage
0	100%
1	95%
5	90%
15	85%
25	80%
50	48%

Temporal change in the SAM variables Overhanging Shade and Aquatic Vegetation followed the same methods as described in the original NMFS BO, namely use of previous growth models for shade and vegetation in the 65% design condition only (NMFS 2015). Consistent with the original NMFS BO, existing conditions of shade and vegetation were assumed to stay constant for 50 years.

For Overhanging Shade, a botanist determined that the Contract 3A overstory planting designs were reasonably approximated by the Undulating Riparian Bench generalized overstory planting plan (USACE 2009, Table 3). Consequently, the Undulating Riparian Bench generalized overstory planting plan's shade evolution model (USACE 2009, Table 4f) was applied for the Contract 3A SAM analysis, as shown in **Table 2**.

TABLE 2
ESTIMATES OF GROWTH IN OVERHANGING SHADE OVER THE 50-YEAR SAM MODELING PERIOD

Year	Percentage of Maximum Planted Overhanging Shade Shoreline Coverage			
	Fall	Winter	Spring	Summer
0	0%	1%	2%	0%
1	0%	1%	4%	0%
5	0%	16%	49%	0%
15	100%	25%	75%	100%
25	100%	25%	75%	100%
50	100%	25%	75%	100%

For Aquatic Vegetation, temporal change followed the approach used in the original NMFS BO, as shown in **Table 3**.

TABLE 3
ESTIMATES OF GROWTH IN AQUATIC VEGETATION OVER THE 50-YEAR SAM MODELING PERIOD

Year	Percentage of Maximum Planted Aquatic Vegetation Shoreline Coverage			
	Fall	Winter	Spring	Summer
0	0%	0%	0%	0%
1	10%	25%	50%	50%
5	100%	100%	100%	100%
15	100%	100%	100%	100%
25	100%	100%	100%	100%
50	100%	100%	100%	100%

SAM Measurements

Tables 4 and 5 show the measured values of the SAM variables at existing and 65% design conditions for Contract 3A (Site 1-1). **Tables 6 and 7** show the values of the SAM variables in the format used for input to the SAM Electronic Calculation Tool (ECT) model.

TABLE 4
EXISTING CONDITION (2019, 2020) MEASUREMENTS OF THE SAM VARIABLES FOR SITE 1-1

	Site 1-1	
	S/F	W/S
Shoreline Length (ft.)	3,344	3,329
Bank Slope (run/rise)	2.38	2.17
Floodplain Area (sq. ft.)	--	610,735
Substrate Size (D_{50}, in.)	20	19
Instream Structure (ft.)	388	367
Aquatic Vegetation (ft.)	485	1,118
Overhanging Shade (ft.)	3,196	*801 / 2,403*

TABLE 5
65% DESIGN CONDITION MEASUREMENTS OF THE SAM VARIABLES FOR SITE 1-1

	Site 1-1	
	S/F	W/S
Shoreline Length (ft.)	3,462	3,374
Bank Slope (run/rise)	5.3	3.1
Floodplain Area (sq. ft.)	--	660,758
Substrate Size (D_{50}, in.)	9.90	0.01
Instream Structure (ft.)	1,752	1,694
Aquatic Vegetation (ft.)	2,100	2,205
Overhanging Shade (ft.)	2,321	*648 / 1,944*

TABLE 6
EXISTING CONDITION (2019, 2020) MODEL INPUT VALUES OF THE SAM VARIABLES FOR SITE 1-1

	Site 1-1	
	S/F	**W/S**
Shoreline Length (ft.)	3,344	3,329
Bank Slope (run/rise)	2.38	2.17
Floodplain Area ratio (AQ_2:AQ_{avg})	--	1.3
Substrate Size (D_{50}, in.)	20	19
Instream Structure coverage (%)	12%	11%
Aquatic Vegetation coverage (%)	15%	33%
Overhanging Shade coverage (%)	96%	*24% / 72%*

TABLE 7
65% DESIGN CONDITION MODEL INPUT VALUES OF THE SAM VARIABLES FOR SITE 1-1

	Site 1-1	
	S/F	**W/S**
Shoreline Length (ft.)	4,099	4,033
Bank Slope (run/rise)	5.3	8.3
Floodplain Area ratio (AQ_2:AQ_{avg})	1.00	1.25
Substrate Size (D_{50}, in.)	9.90	0.01
Instream Structure coverage (%)	51%	50%
Aquatic Vegetation coverage (%)	61%	65%
Overhanging Shade coverage (%)	67%	*19% / 58%*

SAM Results

As described in the original NMFS BO (NMFS 2015, pp. 25-26), SAM results are weighted relative response index (WRI) values that represent the difference between modeled fish response to existing (without-project) and designed (with-project) conditions. Negative WRI values indicate that existing conditions are better for fish and positive WRI values indicate that designed conditions are better for fish. Consistent with the original NMFS BO, WRI values are weighted by shoreline length. Results are presented as the sum of WRI values for Site 1-1.

WRI values do not directly represent actual lengths but NMFS has used WRI values in the 2015 BO as proxies to determine mitigation (NMFS 2015, p. 177), although the current NMFS approach also takes construction footprints into account (NMFS 2021, p. 40). Appropriate mitigation is typically determined by identifying the maximum negative WRI for critical life stages (NMFS 2015, p. 118). By mitigating for the maximum negative WRI, lesser impacts are expected to be appropriately mitigated (NMFS 2015, p. 181).

This analysis focuses primarily on the fry, juvenile rearing, and juvenile migration lifestages as these lifestages are the most common lifestages that may be found within the project area and are the lifestages which have the potential to show the greatest impacts using SAM analyses given their relatively strict habitat requirements. Although adult migration of fall-run Chinook salmon and steelhead is likely to occur in the area, this lifestage is

the least likely to be impacted by the project due to their temporary presence within the project area and have the least potential to show impacts using SAM analyses given their relatively lenient habitat requirements. Spawning and egg incubation, though possible for both species, is likely rare within the project area, given the lack of suitable spawning habitat within the general area for both species. Although these other lifestages are not focused on within the analysis, they have been included within the analysis for completeness.

The yearly WRI values are shown in **Figures 2-5** for any life stage that had any negative WRI values. Life stages with exclusively positive WRI values were not plotted, but are included in the summary of maximum WRI values (negative and positive) in **Table 8**. The maximum negative WRI for Spring-run Chinook salmon was -282. The maximum negative WRI for Winter-run Chinook salmon was -282. The maximum negative WRI for Fall-run Chinook salmon was -282. The maximum negative WRI for steelhead was -228. For the SAM-modeled 50-year period, WRI values were predominantly positive and the longest duration of a WRI deficit was 29 years. WRI values during the winter and spring seasons for all species' juvenile lifestages never show a deficit; habitat values are immediately improved upon completion of the project and continue to improve over time.

For fry and juvenile rearing of all runs of Chinook salmon, SAM predicts that it will take approximately 15 years after project initiation for the fall and summer habitat value to exceed existing conditions. Although habitat value decreases in the first year during construction, it is predicted to increase gradually after the first year, eventually reaching a higher habitat value than existing conditions.

For juvenile migration of all runs of Chinook salmon, the SAM model predicts that it will take approximately 8 years after project initiation for the fall and summer habitat values to exceed existing conditions. Like fry and juvenile rearing of Chinook salmon, initial habitat values decrease during the first year of construction, but gradually increase, providing higher habitat values than existing conditions in the future.

For fry and juvenile rearing of steelhead, SAM predicts that it will take approximately 12 years after project initiation for the fall and summer habitat value to exceed existing conditions. Steelhead WRIs follow those seen for Chinook salmon, with an initial decrease during project construction, followed by a gradual increase which eventually provides higher habitat value than existing conditions in the future.

For juvenile migration of steelhead, SAM predicts that it will take approximately 7 years after project initiation for the fall and summer habitat value to exceed existing conditions. However, as with all other species and lifestages, following this initial deficit, habitat values gradually increase, eventually exceeding existing condition values.

In conclusion, the SAM model predicts that fry and juvenile rearing and juvenile migration habitat values will be improved for Chinook salmon and steelhead compared to existing conditions. Although a deficit of summer and fall habitat values is predicted for the first 7–15 years after construction, depending on which life stage and species is being considered, habitat values over time exceed existing conditions for all species and lifestages.

TABLE 8
MAXIMUM SAM-MODELED WRI DEFICITS AND BENEFITS

Season	Life Stage	Maximum WRI Deficit (feet)	Deficit Duration (years)	Maximum WRI Benefit (feet)	Benefit Duration (years)
Spring-Run Chinook salmon					
Fall	Adult Migration[1]	na	na	na	na
	Spawning & Egg Incubation [1]	na	na	na	na
	Fry & Juvenile Rearing	-160	15	152	35
	Juvenile Migration	-282	8	339	42
Winter	Adult Migration[1]	na	na	na	na
	Spawning & Egg Incubation[1]	na	na	na	na
	Fry & Juvenile Rearing	none	none	263	50
	Juvenile Migration	none	none	505	50
Spring	Adult Migration[1]	na	na	na	na
	Spawning & Egg Incubation[1]	na	na	na	na
	Fry & Juvenile Rearing	none	none	271	50
	Juvenile Migration	na	na	na	na
Summer	Adult Migration[1]	na	na	na	na
	Spawning & Egg Incubation[1]	na	na	na	na
	Fry & Juvenile Rearing	-160	14	152	36
	Juvenile Migration[2]	na	na	na	na
Winter-Run Chinook salmon					
Fall	Adult Migration[1]	na	na	na	na
	Spawning & Egg Incubation[1]	na	na	na	na
	Fry & Juvenile Rearing	-160	15	152	35
	Juvenile Migration	-282	8	339	42
Winter	Adult Migration[1]	na	na	na	na
	Spawning & Egg Incubation[1]	na	na	na	na
	Fry & Juvenile Rearing	0	0	263	50
	Juvenile Migration	0	0	505	50
Spring	Adult Migration[1]	na	na	na	na
	Spawning & Egg Incubation[1]	na	na	na	na
	Fry & Juvenile Rearing	0	0	271	50
	Juvenile Migration	0	0	509	50
Summer	Adult Migration[1]	na	na	na	na
	Spawning & Egg Incubation[1]	na	na	na	na
	Fry & Juvenile Rearing	-160	15	152	35
	Juvenile Migration[2]	na	na	na	na
Fall-Run Chinook salmon					
Fall	Adult Migration	-90	17	76	43
	Spawning & Egg Incubation	none	none	118	50
	Fry & Juvenile Rearing	-160	15	152	35
	Juvenile Migration[3]	na	na	na	na

TABLE 8
MAXIMUM SAM-MODELED WRI DEFICITS AND BENEFITS

Season	Life Stage	Maximum WRI Deficit (feet)	Deficit Duration (years)	Maximum WRI Benefit (feet)	Benefit Duration (years)
Winter	Adult Migration	-58	6	39	44
	Spawning & Egg Incubation	none	none	45	50
	Fry & Juvenile Rearing	none	none	263	50
	Juvenile Migration	na	na	na	na
Spring	Adult Migration[4]	na	na	na	na
	Spawning & Egg Incubation[4]	none	none	45	50
	Fry & Juvenile Rearing	none	none	271	50
	Juvenile Migration	none	none	509	50
Summer	Adult Migration[4]	na	na	na	na
	Spawning & Egg Incubation[4]	na	na	na	na
	Fry & Juvenile Rearing	na	na	na	na
	Juvenile Migration	-282	8	339	42
Steelhead					
Fall	Adult Migration	-228	29	49	21
	Spawning & Egg Incubation[5]	na	na	na	na
	Fry & Juvenile Rearing	-181	12	263	49
	Juvenile Migration[6]	na	na	na	na
	Adult Residence	-228	29	49	21
Winter	Adult Migration	-91	8	37	42
	Spawning & Egg Incubation	none	none	45	50
	Fry & Juvenile Rearing	none	none	340	50
	Juvenile Migration[6]	na	na	na	na
	Adult Residence	-91	8	37	42
Spring	Adult Migration	none	none	45	50
	Spawning & Egg Incubation	none	none	45	50
	Fry & Juvenile Rearing	none	none	350	50
	Juvenile Migration	none	none	346	50
	Adult Residence	none	none	45	50
Summer	Adult Migration[7]	na	na	na	na
	Spawning & Egg Incubation[7]	na	na	na	na
	Fry & Juvenile Rearing	-181	11	263	39
	Juvenile Migration	-202	7	295	43
	Adult Residence	-228	29	49	21

Table footnotes:

1. Not applicable, adult Spring- and Winter-run Chinook salmon are unlikely to occur in the American River.
2. Not applicable, emigrating juvenile Spring- and Winter-run Chinook salmon are unlikely to occur in the American River during summer months.
3. Not applicable, emigrating juvenile Fall-run Chinook salmon are unlikely to occur in the American River during fall months.
4. Not applicable, adult Fall-run Chinook salmon are unlikely to occur in the American River in spring or summer months.
5. Not applicable, steelhead spawning is unlikely to occur in the American River during fall months.
6. Not applicable, emigrating juvenile steelhead are unlikely to occur in the American River during fall or winter months.
7. Not applicable, adult steelhead are unlikely to occur in the American River during summer months.

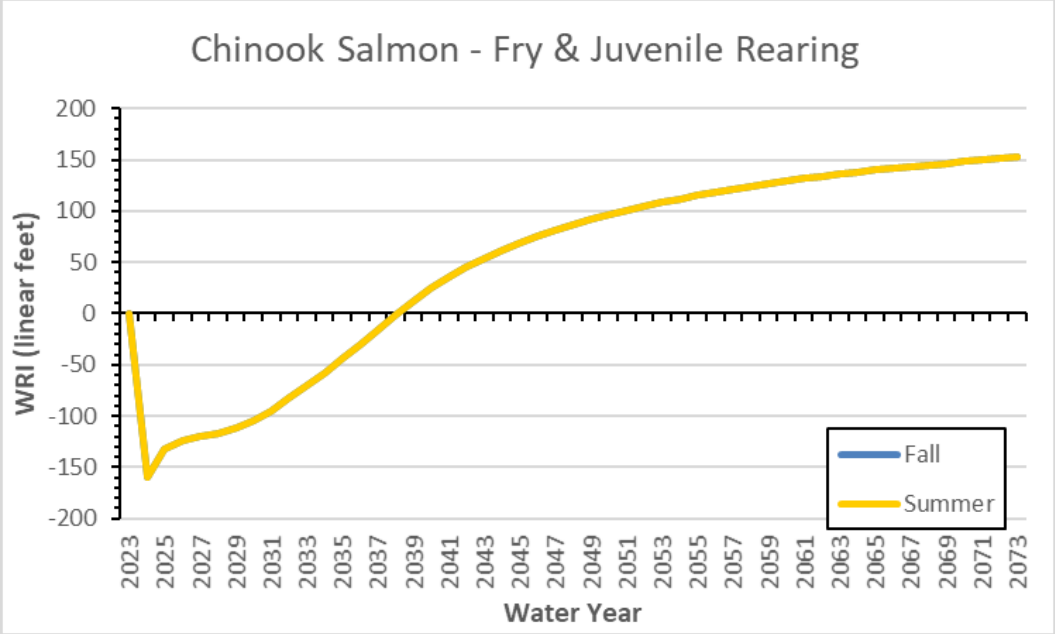

Figure 2
Yearly SAM-modeled WRI values for Chinook salmon rearing in each season. Values apply to any Chinook salmon ESU that occurs in the American River Contract 3A area (Summer and Fall are overlapping)

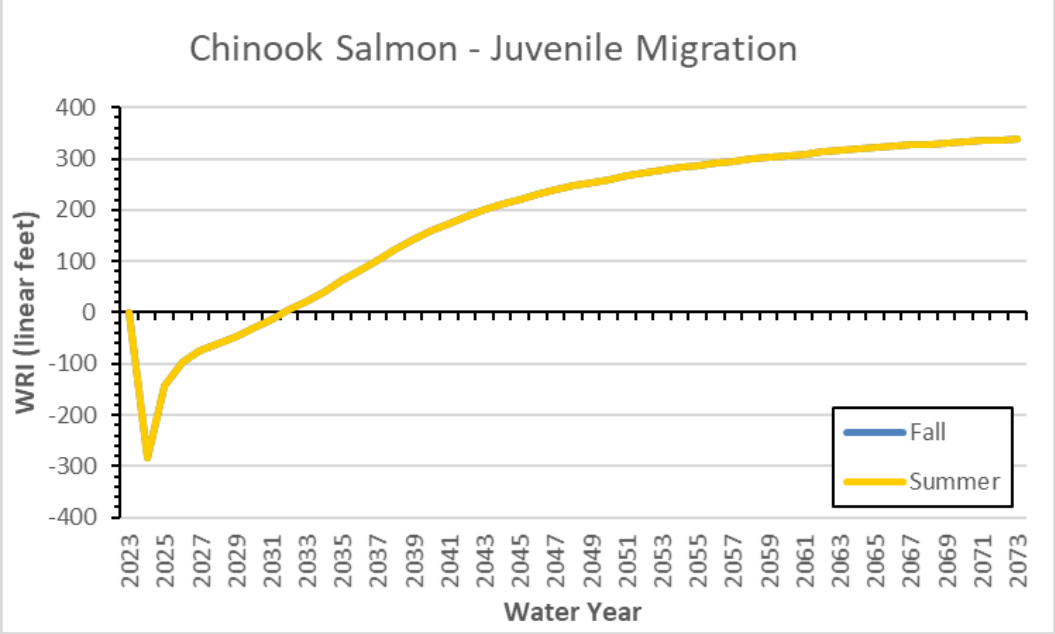

Figure 3
Yearly SAM-modeled WRI values for Chinook salmon juvenile migration in each season. Values apply to any Chinook salmon ESU that occurs in the American River Contract 3 area (Summer and Fall are overlapping)

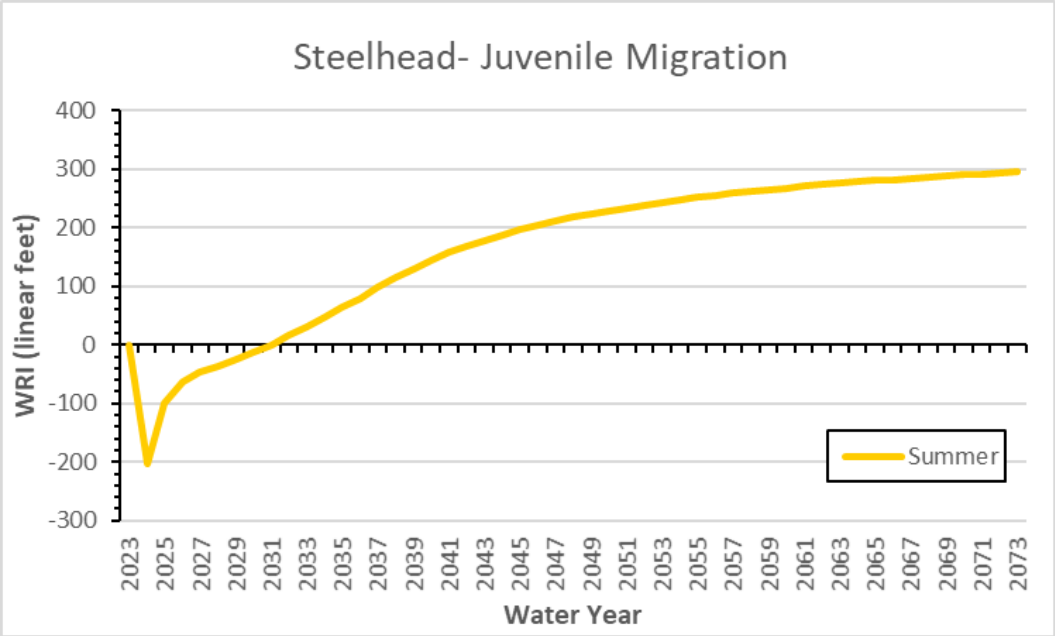

Figure 4
Yearly SAM-modeled WRI values for steelhead rearing in each season. Values apply to any steelhead ESU that occurs in the American River Contract 3A area (Summer and Fall are overlapping)

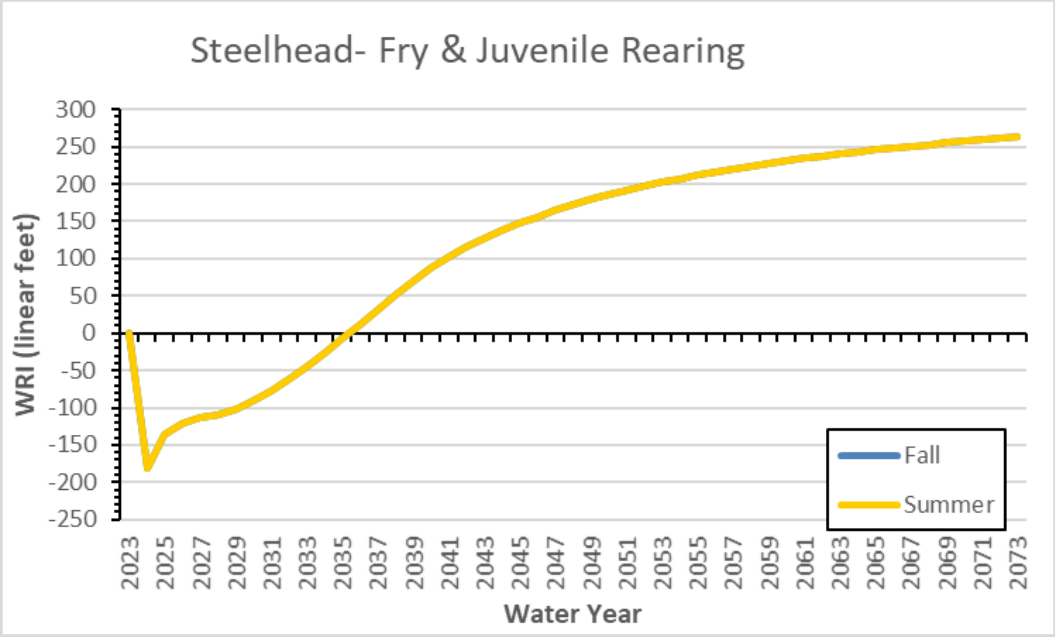

Figure 5
Yearly SAM-modeled WRI values for steelhead juvenile migration in each season. Values apply to any steelhead ESU that occurs in the American River Contract 3A rea

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Appendix D

Air Quality/Greenhouse Gas Emissions/Health Risk Assessment Modeling Data

Appendix D

- *Air Quality, GHG, and Energy Mass Emissions Calculations*
- *Health Risk Assessment Inputs and Outputs*
  - Scenario 1: Haul Route North
  - Scenario 2: Haul Route South

Air Quality, GHG, and Energy Mass Emissions Calculations

Month	2022-2023 Construction Season Forecast
	Site 1-1
Novermber	1. Tree removal and pruning (Preferable to do in November/December before migration period)
December	
January	
February	
March	No activity
April	
May	2. Site Preparation (Temporary BMPs, access roads, staging areas, and pedestrian trail reroutes) 3. Excavation 4. Bedding 5. Riprap installation 6. Soil-Filled Riprap 7. Planting Bench Soil 8. IWM achorages
June	
July	
August	
September	
October	
November	9. Install rock (Aggregate Base) 10. Fine grading
December	11. Planting; Monitoring/Maintenance
January	
February	
March	
April	
May	
June	
July	
August	
September	

Construction Schedule

Site 1-1							
Activity Number	Start Date	End Date	Total Days	Equipment Used	Material Moved (cy)	One-Mile Dump Truck Trips - 10 CY	Activity
1	11/1/2022	12/31/2022					Tree Removal
2	5/1/2023	10/31/2023					Site Preparation
3	5/1/2023	10/31/2023	12	2 excavator, 4 dump truck, 2 dose, 2 skid steer, 1 roller or grader, 5 pickup trucks	3500	29	Excavation
4	5/1/2023	10/31/2023	12	12 dump truck, 1 excavator, 1 doser, 3 skid steer, 3 sheepsfoot roller, 4 pickup truck	7520	63	Bedding
5	5/1/2023	10/31/2023	34	15 dump truck, 2 excavator, 1 doser, 2 skid steer, 1 grader, 1 55-ton crane, 4 pickup truck	23400	69	Riprap
6	5/1/2023	10/31/2023	14	9 dump truck, 1 excavator, 1 doser, 2 skid steer, 3 sheepsfoot roller, 4 pickup truck	10000	71	Soil-filled riprap
7	5/1/2023	10/31/2023	26	12 dump truck, 2 excavator, 1 doser, 2 skid steer, 3 pickup truck	21000	81	Planting bench fill
8	5/1/2023	10/31/2023	10	6 dump truck, 1 flatbed truck	160 trees	4	IWM anchorages
9	11/1/2023	11/31/2023	9	1 dump truck, 1 excavator, 1 doser, 1 skid steer, 1 flatbed truck, 2 pickup truck	4100	46	Aggregate base
10	11/1/2023	11/31/2023					Fine grading
11	12/1/2023	9/30/2024					Planting; Monitoring/Maintenance

Construction-Related Energy Consumption

Site 1-1

Heavy-Duty Equipment

Equipment Type	Total Usage Hours	HP	LF
Grader	257.4	187	0.41
Dozer	1178.1	247	0.4
Skid Steer Loader	2504.7	65	0.37
Excavator	1574.1	158	0.38
Rollers	455.4	80	0.38
Total			

Haul Truck Trips

Vehicle Type	Total VMT	Gallons of Diesel
Dump Trucks (10 CY)	61,900	10,555
Pick-Up Truck	7,072	189

Worker Commute Trips

Vehicle Type	Total VMT	Gallons of Gasoline
Mixed LDA/LDT	54,780	1,916

Site Total

Gallons of Diesel	Gallons of Gasoline
193,578	**1,916**

Average Daily Factor	Diesel Fuel Usage (Gallons)
0.6	11,841
0.6	69,838
0.6	36,143
0.6	56,705
0.6	8,306
	182,833

Maximum Daily Emissions (with Tier 4 Equipments)

Site 1-1

Date Range	Activity Number	ROG (lb/day)	CO (lb/day)	NOx (lb/day)	PM10 Exhaust (lb/day)	PM10 Fugitive (lb/day)	PM10 Total (lb/day)	PM2.5 Exhaust (lb/day)	PM2.5 Fugitive (lb/day)	PM2.5 Total (lb/day)
November-Feb	1	0.0233	0.19627	0.01507	0.00032	0.02804	0.02836	0.00029	0.00280	0.00310
May-October	6	4.1	19.8	175.5	0.2	46.5	46.7	1.1	4.6	5.7
November	10	0.0	0.00294	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Annual Total Emissions

Site 1-1 (2022 & 2023)

Year	ROG (tons/year)	CO (tons/year)	NOx (tons/year)	PM10 (tons/year)	PM2.5 (tons/year)	CO2 (MT/year)	CH4 (MT/year)	N2O (MT/year)	MTCO2e/year
2022	0.00322	0.02709	0.00208	0.00005	0.00004	6.38476	0.00025	0.00021	6
2023	0.2685	3.2218	9.7596	0.0755380	0.0657154	3,535.580	0.077345	0.481309	3,536

Site 1-1

Off-Road Equipment - Tier 4

Date Range	Activity Number	Equipment Type	Total Equipment Number		HP	LF	Hours/Day	Total Days	ROG (g/hp-hr)	ROG (lb/day)	ROG (tons/year)	CO (g/hp-hr)	CO (lb/day)	CO (tons/year)	NOX (g/hp-hr)	NOX (lb/day)	NOX (tons/year)	Exhaust PM10 (g/hp/hr)	Exhaust PM10 (lb/day)	Exhaust PM10 (tons/year)	Exhaust PM2.5 (g/hp-hr)	Exhaust PM2.5 (lb/day)	Exhaust PM2.5 (tons/year)	Fugitive Dust[1] PM10 (lb/day)	Fugitive Dust[1] PM10 (tons/year)	Fugitive Dust[1] PM2.5 (lb/day)	Fugitive Dust[1] PM2.5 (tons/year)	CO2 (g/hp-hr)	CO2 (lb/day)	CO2 (MT/year)	CH4 (g/hp-hr)	CH4 (lb/day)	CH4 (MT/year)	N2O (g/hp-hr)	N2O (lb/day)	N2O (MT/year)
May - October	3	Grader	0.9		187	0.41	11	12	0.15	0.25	0.00	2.60	4.35	0.03	0.30	0.50	0.00	0.02	0.03	0.00	0.01	0.02	0.00	3.06	0.00	0.31	0.00	474.239	793.5833	7.22827125	0.1534	0.256697	0.0013972	0.00427392	0.007152	3.893E-05
	3	Dozer	1.8		247	0.4	11	12	0.15	0.65	0.00	2.60	11.21	0.07	0.30	1.29	0.01	0.02	0.06	0.00	0.01	0.06	0.00	5.96	0.00	0.60	0.00	474.6166	2046.914	48.05106883	0.1535	0.662011	0.0036034	0.00427392	0.018432	0.0003003
	3	Skid Steer Loader	1.8		65	0.37	11	12	0.19	0.20	0.00	3.70	3.88	0.02	3.33	3.49	0.02	0.02	0.02	0.00	0.02	0.02	0.00	5.51	0.00	0.55	0.00	568.299	596.6117	3.409206388	0.029	0.030445	0.0001657	0.00427392	0.004487	2.442E-05
	3	Excavator	1.8		158	0.38	11	12	0.15	0.39	0.00	3.70	9.70	0.06	0.30	0.79	0.00	0.02	0.04	0.00	0.01	0.04	0.00	5.66	0.00	0.57	0.00	472.1917	1237.539	17.65415121	0.1527	0.400202	0.0021783	0.00427392	0.011201	6.097E-05
	4	Excavator	0.9		158	0.38	11	34	0.15	0.20	0.00	3.70	4.85	0.08	0.30	0.39	0.01	0.02	0.02	0.00	0.01	0.02	0.00	2.83	0.00	0.28	0.00	472.1917	618.7694	12.50499827	0.1527	0.200101	0.0030886	0.00427392	0.005601	8.637E-05
	4	Dozer	0.9		247	0.4	11	34	0.15	0.32	0.01	2.60	5.61	0.10	0.30	0.65	0.01	0.02	0.03	0.00	0.01	0.03	0.00	2.98	0.00	0.30	0.00	474.6166	1023.457	34.03617381	0.1535	0.331005	0.0051048	0.00427392	0.009216	0.0003421
	4	Skid Steer Loader	2.7		65	0.37	11	34	0.19	0.29	0.01	3.70	5.83	0.10	3.33	5.24	0.09	0.02	0.03	0.00	0.02	0.03	0.00	8.27	0.00	0.83	0.00	472.1917	743.5745	18.05822	0.1527	0.240461	0.0037084	0.00427392	0.00673	0.0001038
	4	Rollers	0.9		80	0.38	11	34	0.15	0.10	0.00	3.70	2.45	0.04	0.30	0.20	0.00	0.02	0.01	0.00	0.01	0.01	0.00	2.83	0.00	0.28	0.00	472.1917	313.303	3.205890648	0.1527	0.101317	0.0015625	0.00427392	0.002836	4.373E-05
	5	Excavator	1.8		158	0.38	11	14	0.15	0.39	0.00	3.70	9.70	0.07	0.30	0.79	0.01	0.02	0.04	0.00	0.01	0.04	0.00	5.66	0.00	0.57	0.00	472.1917	1237.539	20.59646774	0.1527	0.400202	0.0025414	0.00427392	0.011201	7.113E-05
	5	Dozer	0.9		247	0.4	11	14	0.15	0.32	0.00	2.60	5.61	0.04	0.30	0.65	0.00	0.02	0.03	0.00	0.01	0.03	0.00	2.98	0.00	0.30	0.00	472.1917	1018.228	13.94329053	0.1527	0.32928	0.002091	0.00427392	0.009216	5.853E-05
	5	Skid Steer Loader	2.7		65	0.37	11	14	0.19	0.29	0.00	3.70	5.83	0.04	3.33	5.24	0.04	0.02	0.03	0.00	0.02	0.03	0.00	8.27	0.00	0.83	0.00	472.1917	743.5745	7.435737649	0.1527	0.240461	0.001527	0.00427392	0.00673	4.274E-05
	5	Grader	0.9		187	0.41	11	14	0.15	0.25	0.00	2.60	4.35	0.03	0.30	0.50	0.00	0.02	0.03	0.00	0.01	0.02	0.00	3.06	0.00	0.31	0.00	472.1917	790.1574	8.396577755	0.1527	0.255526	0.0016227	0.00427392	0.007152	4.542E-05
	6	Excavator	0.9		158	0.38	11	12	0.15	0.20	0.00	3.70	4.85	0.03	0.30	0.39	0.00	0.02	0.02	0.00	0.01	0.02	0.00	2.83	0.00	0.28	0.00	472.1917	618.7694	4.413528802	0.1527	0.200101	0.0010892	0.00427392	0.005601	3.048E-05
	6	Dozer	0.9		247	0.4	11	12	0.15	0.32	0.00	2.60	5.61	0.03	0.30	0.65	0.00	0.02	0.03	0.00	0.01	0.03	0.00	2.98	0.00	0.30	0.00	472.1917	1018.228	11.95139188	0.1527	0.32928	0.0017923	0.00427392	0.009216	5.016E-05
	6	Skid Steer Loader	1.8		65	0.37	11	12	0.19	0.20	0.00	3.70	3.88	0.02	3.33	3.49	0.02	0.02	0.02	0.00	0.02	0.02	0.00	5.51	0.00	0.55	0.00	472.1917	495.7161	2.832661961	0.1527	0.160308	0.0008726	0.00427392	0.004487	2.442E-05
	6	Rollers	0.9		80	0.38	11	12	0.15	0.10	0.00	3.70	2.45	0.01	0.30	0.20	0.00	0.02	0.01	0.00	0.01	0.01	0.00	2.83	0.00	0.28	0.00	472.1917	313.303	1.131492723	0.1527	0.101317	0.0005515	0.00427392	0.002836	1.544E-05
	7	Excavator	1.8		158	0.38	11	26	0.15	0.39	0.01	3.70	9.70	0.13	0.30	0.79	0.01	0.02	0.04	0.00	0.01	0.04	0.00	5.66	0.00	0.57	0.00	472.1917	1237.539	38.25058295	0.1527	0.400202	0.0047937	0.00427392	0.011201	0.0001121
	7	Dozer	0.9		247	0.4	11	26	0.15	0.32	0.00	2.60	5.61	0.07	0.30	0.65	0.01	0.02	0.03	0.00	0.01	0.03	0.00	2.98	0.00	0.30	0.00	472.1917	1018.228	25.89468242	0.1527	0.32928	0.0038833	0.00427392	0.009216	0.0001087
	7	Skid Steer Loader	1.8		65	0.37	11	26	0.19	0.20	0.00	3.70	3.88	0.05	3.33	3.49	0.05	0.02	0.02	0.00	0.02	0.02	0.00	5.51	0.00	0.55	0.00	472.1917	495.7161	6.13743425	0.1527	0.160308	0.0018906	0.00427392	0.004487	5.292E-05
November	9	Excavator	0.9		158	0.38	11	9	0.15	0.20	0.00	3.70	4.85	0.02	0.30	0.39	0.00	0.02	0.02	0.00	0.01	0.02	0.00	2.83	0.00	0.28	0.00	472.1917	618.7694	3.310146601	0.1527	0.200101	0.0008169	0.00427392	0.005601	2.286E-05
	9	Dozer	0.9		247	0.4	11	9	0.15	0.32	0.00	2.60	5.61	0.03	0.30	0.65	0.00	0.02	0.03	0.00	0.01	0.03	0.00	2.98	0.00	0.30	0.00	472.1917	1018.228	8.963543913	0.1527	0.32928	0.0013442	0.00427392	0.009216	3.762E-05
	9	Skid Steer Loader	0.9		65	0.37	11	9	0.19	0.10	0.00	3.70	1.94	0.01	3.33	1.75	0.01	0.02	0.01	0.00	0.02	0.01	0.00	2.76	0.00	0.28	0.00	472.1917	247.8582	0.551124118	0.1527	0.080154	0.0003272	0.00427392	0.002245	9.158E-06
											0.05			1.08			0.30			0.01			0.00			0.00			297.94			0.05		0.00

Off-Road Equipment - Non Tier 4

Date Range	Activity Number	Equipment Type	Equipment Number		HP	LF	Hours/Day	Total Days	ROG (g/hp-hr)	ROG (lb/day)	ROG (tons/year)	CO (g/hp-hr)	CO (lb/day)	CO (tons/year)	NOX (g/hp-hr)	NOX (lb/day)	NOX (tons/year)	Exhaust PM10 (g/hp-hr)	Exhaust PM10 (lb/day)	Exhaust PM10 (tons/year)	Exhaust PM2.5 (g/hp-hr)	Exhaust PM2.5 (lb/day)	Exhaust PM2.5 (tons/year)	Fugitive Dust[1] PM10 (lb/day)	Fugitive Dust[1] PM10 (tons/year)	Fugitive Dust[1] PM2.5 (lb/day)	Fugitive Dust[1] PM2.5 (tons/year)	CO2 (g/hp-hr)	CO2 (lb/day)	CO2 (MT/year)	CH4 (g/hp-hr)	CH4 (lb/day)	CH4 (MT/year)	N2O (g/hp-hr)	N2O (lb/day)	N2O (MT/year)
May - October	3	Grader	0.10		187	0.41	11	12	0.3069	0.06	0.00	1.27327	0.236740886	0.01142044	3.8881	0.722919914	0.034337515	0.1237	0.022999715	0.000138	0.1138	0.021158994	0.00012695	0.34	0.00	0.03	0.00	474.239	88.17593	0.479950735	0.1534	0.028522	0.0001552	0.00427392	0.000795	4.325E-06
	3	Dozer	0.20		247	0.4	11	12	0.480	0.23	0.00	2.058	0.985052066	0.005910306	5.046	2.418258904	0.014509537	0.240	0.114767721	0.000688611	0.220	0.105615055	0.000633691	0.66	0.00	0.07	0.00	474.6166	227.4349	1.237955197	0.1535	0.073557	0.0004004	0.00427392	0.002048	1.115E-05
	3	Skid Steer Loader	0.20		65	0.37	11	12	0.164	0.02	0.00	3.270	0.381477797	0.002288864	2.189	0.255365241	0.00153219	0.081	0.00949504	5.697E-05	0.075	0.008725172	5.235E-05	0.61	0.00	0.06	0.00	568.299	66.29019	0.360824401	0.029	0.003383	1.841E-05	0.00427392	0.000499	2.714E-06
	3	Excavator	0.20		158	0.38	11	12	0.191	0.06	0.00	3.074	0.895162419	0.005370969	1.678	0.488670135	0.002932018	0.081	0.023616679	0.0001417	0.075	0.021723851	0.00013034	0.63	0.00	0.06	0.00	472.1917	137.5043	0.748450287	0.1527	0.044467	0.000242	0.00427392	0.001245	6.774E-06
	4	Excavator	0.10		158	0.38	11	34	0.191	0.03	0.00	3.074	0.44758121	0.007608872	1.678	0.244335077	0.004153692	0.081	0.01180834	0.00020074	0.075	0.010861925	0.00018465	0.31	0.00	0.03	0.00	472.1917	68.75216	1.060304574	0.1527	0.022233	0.0003429	0.00427392	0.000622	9.597E-06
	4	Dozer	0.10		247	0.4	11	34	0.480	0.12	0.00	2.058	0.492526033	0.008372931	5.046	1.209129452	0.020555178	0.240	0.05738386	0.00097552	0.220	0.052807527	0.00089775	0.33	0.00	0.03	0.00	474.6166	113.7175	1.753765291	0.1535	0.036778	0.0005672	0.00427392	0.001024	1.579E-05
	4	Skid Steer Loader	0.30		65	0.37	11	34	0.164	0.03	0.00	3.270	0.572216695	0.009727673	2.189	0.383047861	0.006513806	0.081	0.011424559	0.00024212	0.075	0.010387757	0.00022249	0.92	0.00	0.09	0.00	472.1917	82.61939	1.274668405	0.1527	0.026718	0.000412	0.00427392	0.000748	1.153E-05
	4	Rollers	0.10		80	0.38	11	34	0.310	0.02	0.00	3.470	0.255797658	0.004348555	3.219	0.237310231	0.004034269	0.186	0.01367555	0.00023248	0.171	0.012584455	0.00021394	0.31	0.00	0.03	0.00	472.1917	34.81122	0.536863075	0.1527	0.011257	0.0001736	0.00427392	0.000315	4.859E-06
	5	Excavator	0.20		158	0.38	11	14	0.191	0.06	0.00	3.074	0.895162419	0.00626613	1.678	0.488670135	0.003420687	0.081	0.023616679	0.00016512	0.075	0.021723851	0.00015207	0.63	0.00	0.06	0.00	472.1917	137.5043	0.873192002	0.1527	0.044467	0.0002824	0.00427392	0.001245	7.903E-06
	5	Dozer	0.10		247	0.4	11	14	0.480	0.12	0.00	2.058	0.492526033	0.003447678	5.046	1.209129452	0.008463897	0.240	0.05738386	0.00040169	0.220	0.052807527	0.00036965	0.33	0.00	0.03	0.00	472.1917	113.1365	0.718449115	0.1527	0.036587	0.0002323	0.00427392	0.001024	6.503E-06
	5	Skid Steer Loader	0.30		65	0.37	11	14	0.1641	0.03	0.00	3.27037	0.572216695	0.004005512	2.18922	0.383047861	0.002681332	0.0814	0.011424559	9.9698E-05	0.0748	0.010387757	9.1614E-05	0.92	0.00	0.09	0.00	472.1917	82.61939	0.52465692	0.1527	0.026718	0.0001697	0.00427392	0.000748	4.749E-06
	6	Grader	0.10		187	0.41	11	14	0.3069	0.06	0.00	1.27327	0.236740886	0.001657184	3.8881	0.722919914	0.035060434	0.1237	0.022999715	0.000161	0.1138	0.021158994	0.00014811	0.34	0.00	0.03	0.00	472.1917	87.79527	0.557525234	0.1527	0.028392	0.0001803	0.00427392	0.000795	5.046E-06
	6	Excavator	0.10		158	0.38	11	12	0.1912	0.03	0.00	3.074	0.44758121	0.002685484	1.6781	0.244335077	0.001466009	0.0811	0.01180834	7.08SE-05	0.0746	0.010861925	6.517E-05	0.31	0.00	0.03	0.00	472.1917	68.75216	0.374225144	0.1527	0.022233	0.000121	0.00427392	0.000622	3.387E-06
	6	Dozer	0.10		247	0.4	11	12	0.4804	0.12	0.00	2.05563	0.492526033	0.002955153	5.04648	1.209129452	0.007254769	0.2395	0.05738386	0.0003443	0.2204	0.052807527	0.00031684	0.33	0.00	0.03	0.00	472.1917	113.1365	0.615815527	0.1527	0.036587	0.0001991	0.00427392	0.001024	5.574E-06
	6	Skid Steer Loader	0.20		65	0.37	11	12	0.1641	0.02	0.00	3.27037	0.381477797	0.002288864	2.18922	0.253365241	0.00153219	0.0814	0.00949504	5.697E-05	0.0748	0.008725172	5.235E-05	0.61	0.00	0.06	0.00	472.1917	55.07959	0.299803954	0.1527	0.017812	9.69E-05	0.00427392	0.000499	2.714E-06
	6	Rollers	0.10		80	0.38	11	12	0.3101	0.02	0.00	3.46973	0.255797658	0.001534784	3.21896	0.237310231	0.00142386	0.1855	0.01367555	8.2053E-05	0.1707	0.012584455	7.550TE-05	0.31	0.00	0.03	0.00	472.1917	34.81122	0.188481085	0.1527	0.011257	6.128E-05	0.00427392	0.000315	1.715E-06
	7	Excavator	0.20		158	0.38	11	26	0.1912	0.06	0.00	3.074	0.895162419	0.011637099	1.6781	0.488670155	0.006352705	0.0811	0.023616679	0.00030702	0.0746	0.021723851	0.00028241	0.63	0.00	0.06	0.00	472.1917	137.5043	1.621642289	0.1527	0.044467	0.0005244	0.00427392	0.001245	1.468E-05
	7	Dozer	0.10		247	0.4	11	26	0.4804	0.12	0.00	2.05563	0.492526033	0.006402831	5.04648	1.209129452	0.015718666	0.2395	0.05738386	0.00074599	0.2204	0.052807527	0.0006865	0.33	0.00	0.03	0.00	472.1917	113.1365	1.334262643	0.1527	0.036587	0.0004315	0.00427392	0.001024	1.208E-05
	7	Skid Steer Loader	0.20		65	0.37	11	26	0.1641	0.02	0.00	3.27037	0.381477797	0.004959206	2.18922	0.253365241	0.003319744	0.0814	0.00949504	0.00012344	0.0748	0.008725172	0.00011348	0.61	0.00	0.06	0.00	472.1917	55.07959	0.649575234	0.1527	0.017812	0.0002301	0.00427392	0.000499	5.879E-06
	9	Excavator	0.10		158	0.38	11	9	0.1912	0.03	0.00	3.074	0.44758121	0.002014113	1.6781	0.244335077	0.001099507	0.0811	0.01180834	5.313TE-05	0.0746	0.010861925	4.8879E-05	0.31	0.00	0.03	0.00	472.1917	68.75216	0.280668858	0.1527	0.022233	9.076E-05	0.00427392	0.000622	2.54E-06
November	9	Dozer	0.10		247	0.4	11	9	0.4804	0.12	0.00	2.05563	0.492526033	0.002216365	5.04648	1.209129452	0.005441077	0.2395	0.05738386	0.00025823	0.2204	0.052807527	0.00023763	0.33	0.00	0.03	0.00	472.1917	113.1365	0.461860146	0.1527	0.036587	0.0001493	0.00427392	0.001024	4.18E-06
	9	Skid Steer Loader	0.10		65	0.37	11	9	0.1641	0.01	0.00	3.27037	0.190738898	0.000858324	2.18922	0.12768262	0.000574571	0.0814	0.00474752	2.1364E-05	0.0748	0.004362586	1.963E-05	0.31	0.00	0.03	0.00	472.1917	27.5398	0.112426483	0.1527	0.008906	3.636E-05	0.00427392	0.000249	1.018E-06
											0.01			0.10			0.12			0.01			0.01			0.00			16.07			0.01		0.00

Aggregate Storage Pile Fugitive Dust

Date Range	Material Type	Total Quantity	Unit	Total Days	Daily Quantity	Unit	PM10 (lb/day)	PM10 (tons/year)	PM2.5 (lb/day)	PM2.5 (tons/year)
May-October	Soil and rock	97,328	tons	117	832	tons	0.699223976	0.040904628	0.069922398	0.004090463

On-Road Hauling

Date Range	Material Movement	Equipment Type	Amount to Haul (CY)	Total Hauling Days	Number of Truck Trips/Day	Number of Truck Trips/Hour	Trip Length Roundtrip (mi)	Total Daily VMT	Total Annual VMT	ROG (lb/day)	ROG (tons/year)	NOX (lb/day)	NOX (tons/year)	Exhaust PM10 (lb/day)	Exhaust PM10 (tons/year)	Exhaust PM2.5 (lb/day)	Exhaust PM2.5 (tons/year)	Fugitive Dust[1] PM10 (lb/day)	Fugitive Dust[1] PM10 (tons/year)	Fugitive Dust[1] PM2.5 (lb/day)	Fugitive Dust[1] PM2.5 (tons/year)	CO (lb/day)	CO (tons/year)	CO2 (MT/year)	CH4 (MT/year)	N2O (MT/year)
May-October	Export-1	Dump Trucks (10 CY)	3500	12	30	3	30	900	10,800	0.17	0.00	9.36	0.06	0.05	0.00	0.05	0.00	1.60	0.000	0.16	0.00	1.41	0.00	18.75	0.00	0.00
	Export-1	Pick-Up Truck		12	1	0	20	20	240	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.42	0.00	0.00
	Import-4	Dump Trucks (10 CY)	7200	12	63	6	150	9,375	112,500	1.73	0.01	97.47	0.58	0.56	0.00	0.54	0.00	16.69	0.00	1.67	0.00	14.66	0.09	195.26	0.00	0.03
	Import-4	Pick-Up Truck		12	1	0	20	20	240	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.42	0.00	0.00
	Import-5	Dump Trucks (10 CY)	23400	34	79	7	150	11,912	405,000	2.20	0.04	123.84	2.11	0.71	0.01	0.68	0.01	21.21	0.00	2.12	0.00	18.62	0.32	702.95	0.00	0.11
	Import-5	Pick-Up Truck		34	1	0	20	20	680	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.03	0.00	1.18	0.00	0.00
	Import-6	Dump Trucks (10 CY)	10000	14	107	10	150	16,071	225,000	2.96	0.02	167.09	1.17	0.96	0.01	0.92	0.01	28.62	0.00	2.86	0.00	25.13	0.18	390.53	0.00	0.06
	Import-6	Pick-Up Truck		14	1	0	20	20	280	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.49	0.00	0.00
	Import-7	Dump Trucks (10 CY)	21000	26	80	7	150	12,058	313,500	2.22	0.03	125.36	1.63	0.72	0.01	0.69	0.01	21.47	0.00	2.15	0.00	18.85	0.25	544.14	0.00	0.09
		Water Truck - Dump Truck		80	1	0	20	20	1,600	0.00	0.00	0.21	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.03	0.00	2.78	0.00	0.00
	Import-7	Pick-Up Truck		26	1	0	20	20	520	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.90	0.00	0.00
	Import-8	Dump Trucks (10 CY)		10	4	0	200	800	8,000	0.15	0.00	8.32	0.04	0.05	0.00	0.05	0.00	1.42	0.00	0.14	0.00	1.25	0.01	13.89	0.00	0.00
	Import-8	Flatbed Truck		10	4	0	200	800	8,000	0.15	0.00	8.32	0.04	0.05	0.00	0.05	0.00	1.42	0.00	0.14	0.00	1.25	0.01	13.89	0.00	0.00
November	Import-9	Dump Trucks (10 CY)	2,050	9	25	2	150	3,792	34,125	0.70	0.00	39.42	0.18	0.23	0.00	0.22	0.00	6.75	0.000	0.68	0.00	5.93	0.03	59.23	0.00	0.01
	Import-9	Pick-Up Truck		9	1	0	20	20	180	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.04	0.000	0.00	0.00	0.03	0.00	0.31	0.00	0.00
	Import-9	Flatbed Truck	2,050	9	25	2	150	3,792	34,125	0.70	0.00	39.42	0.18	0.23	0.00	0.22	0.00	6.75	0.000	0.68	0.00	5.93	0.03	59.23	0.00	0.01
											0.11		6.00		0.03		0.03		0.00		0.00		0.90	2,004.36	0.00	0.32

Off-Road Hauling

Date Range	Activity Number	Truck Size	Equipment Type	Total Equipment Number	Off-Road Daily VMT	Total Days	Annual VMT	ROG (lb/day)	ROG (tons/year)	NOX (lb/day)	NOX (tons/year)	Exhaust PM10 (lb/day)	Exhaust PM10 (tons/year)	Exhaust PM2.5 (lb/day)	Exhaust PM2.5 (tons/year)	Fugitive Dust[1] PM10 (lb/day)	Fugitive Dust[1] PM10 (tons/year)	Fugitive Dust[1] PM2.5 (lb/day)	Fugitive Dust[1] PM2.5 (tons/year)	CO (lb/day)	CO (tons/year)	CO2 (MT/year)	CH4 (MT/year)	N2O (MT/year)
May-October	3	Dump Trucks (10 CY)	Dump Truck	4	29	12	350	0.01	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.04	0.00	0.05	0.00	0.61	0.00	0.00
	3	Pick-Up Truck	Pick-Up Truck	5	29	12	350	0.0053767	0.0000323	0.303240	0.001819	0.001745	0.000010	0.000107	0.000001	0.40	0.000003	0.039809	0.000000	0.045601	0.000274	0.607491	0.000001	0.000095
	4	Dump Trucks (10 CY)	Dump Truck	12	63	12	752	0.0115523	0.0000693	0.651534	0.003909	0.003749	0.000022	0.000230	0.000001	0.86	0.00	0.085532	0.000000	0.097976	0.000588	1.305237	0.000003	0.000205
	4	Pick-Up Truck	Pick-Up Truck	4	63	12	752	0.0115523	0.0000693	0.651534	0.003909	0.003749	0.000022	0.000230	0.000001	0.86	0.00	0.085532	0.000000	0.097976	0.000588	1.305237	0.000003	0.000205
	5	Dump Trucks (10 CY)	Dump Truck	15	69	34	2,340	0.0126873	0.0002157	0.715545	0.012164	0.004118	0.000070	0.003940	0.000067	0.94	0.00	0.093935	0.000000	0.107602	0.001829	4.061510	0.000039	0.000638
	5	Pick-Up Truck	Pick-Up Truck	4	69	34	2,340	0.0126873	0.0002157	0.715545	0.012164	0.004118	0.000070	0.000253	0.000004	0.94	0.00	0.093935	0.000000	0.107602	0.001829	4.061510	0.000039	0.000638
	6	Dump Trucks (10 CY)	Dump Truck	9	71	14	1,000	0.0131675	0.0000922	0.742630	0.005198	0.004274	0.000030	0.004089	0.000029	0.97	0.00	0.097491	0.000000	0.111675	0.000782	1.735688	0.000004	0.000273
	6	Pick-Up Truck	Pick-Up Truck	4	71	14	1,000	0.0131675	0.0000922	0.742630	0.005198	0.004274	0.000030	0.000262	0.000002	0.97	0.00	0.097491	0.000000	0.111675	0.000782	1.735688	0.000004	0.000273
	7	Dump Trucks (10 CY)	Dump Truck	12	81	26	2,100	0.0148894	0.0001936	0.839743	0.010917	0.004832	0.000063	0.004623	0.000060	1.10	0.00	0.110239	0.000000	0.126279	0.001642	3.644945	0.000008	0.000573
	7	Pick-Up Truck	Pick-Up Truck	3	81	26	2,100	0.0148894	0.0001936	0.839743	0.010917	0.004832	0.000063	0.000297	0.000004	1.10	0.00	0.110239	0.000000	0.126279	0.001642	3.644945	0.000008	0.000573
	8	Dump Trucks (10 CY)	Dump Truck	6	4	10	40	0.0007374	0.0000037	0.041587	0.000208	0.000239	0.000001	0.000229	0.000001	0.05	0.00	0.005459	0.000000	0.006254	0.000031	0.069428	0.000000	0.000011
	8	Flatbed Truck	Pick-Up Truck	1	4	10	40	0.0007374	0.0000037	0.041587	0.000208	0.000239	0.000001	0.000229	0.000001	0.05	0.00	0.005459	0.000000	0.006254	0.000031	0.069428	0.000000	0.000011
	9	Dump Trucks (10 CY)	Dump Truck	1	46	9	410	0.0083980	0.0000378	0.4736327	0.0021313	0.002726	0.000012	0.002608	0.000012	0.62	0.000001	0.062177	0.000000	0.071224	0.000321	0.711632	0.000002	0.000112
	9	Pick-Up Truck	Pick-Up Truck	2	46	9	410	0.0083980	0.0000378	0.4736327	0.0021313	0.002726	0.000012	0.000167	0.000001	0.62	0.000001	0.062177	0.000000	0.071224	0.000321	0.711632	0.000002	0.000112
	9	Flatbed Truck	Flatbed Truck	1	46	9	410	0.0083980	0.0000378	0.4736327	0.0021313	0.002726	0.000012	0.002608	0.000012	0.62	0.000001	0.062177	0.000000	0.071224	0.000321	0.711632	0.000002	0.000112
									0.00		0.07		0.00		0.00		0.00		0.00		0.01	24.98	0.00	0.00

Worker Commute

Date Range	Activity Number	Number of Workers/Day	Average Trip Length (one way)	Number of Work Days	Daily VMT	Annual VMT	ROG (lb/day)	ROG (tons/year)	NOX (lb/day)	NOX (tons/year)	Exhaust PM10 (lb/day)	Exhaust PM10 (tons/year)	Exhaust PM2.5 (lb/day)	Exhaust PM2.5 (tons/year)	Fugitive Dust[1] PM10 (lb/day)	Fugitive Dust[1] PM10 (tons/year)	Fugitive Dust[1] PM2.5 (lb/day)	Fugitive Dust[1] PM2.5 (tons/year)	CO (lb/day)	CO (tons/year)	CO2 (MT/year)	CH4 (MT/year)	N2O (MT/year)
November - February	1	4	10	92	80	7360	0.02330672	0.001072109	0.015073009	0.000693358	0.00031917	1.4682E-05	0.0002939	1.35194E-05	0.028044135	2.84403E-06	0.002804413	2.844E-07	0.196271183	0.00902847	2.12825224	8.2872E-05	6.8537E-05
May-October	2	4	10	4	80		0.02330672	0	0.015073009	0	0.00031917	0	0.0002939	0	0.028044135	0	0.002804413	0	0.196271183	0	0	0	0
	3	16	10	12	320	3840	0.09322687	0.000559361	0.060292036	0.000361752	0.001276678	7.6601E-06	0.001175599	7.05359E-06	0.112176538	1.48384E-06	0.011217654	1.4838E-07	0.785084733	0.00471053	1.11039247	4.3237SE-05	3.5758E-05
	4	24	10	34	480	16320	0.1398403	0.002377285	0.090438053	0.001537447	0.001915019	3.2555E-05	0.001763399	2.9977BE-05	0.168264808	6.30633E-06	0.016826481	6.3063E-07	1.1776271	0.02001966	4.71916801	0.00018376	0.00015197
	5	25	10	14	500	7000	0.14566698	0.001019669	0.094206306	0.000659444	0.001994811	1.3964E-05	0.001836874	1.28581E-05	0.175275841	2.70492E-06	0.017527584	2.7049E-07	1.226694836	0.00858586	2.02415294	7.8818E-05	6.5185E-05
	6	20	10	12	400	4800	0.11653358	0.000699201	0.075365045	0.00045219	0.001595849	9.5751E-06	0.001469499	8.81699E-06	0.140220673	1.8548E-06	0.014022067	1.8548E-07	0.981355917	0.00588814	1.38799059	5.40469E-05	4.4698E-05
	7	20	10	26	400	10400	0.11653358	0.001514937	0.075365045	0.000979746	0.001595849	2.0748E-05	0.001469499	1.91035E-05	0.140220673	4.01874E-06	0.014022067	4.0187E-07	0.981355917	0.01275768	3.00731295	0.00011710	9.6846E-05
	8	7	10	10	140	1400	0.04078675	0.000203934	0.026377766	0.000131889	0.000558547	2.7927E-06	0.000514325	2.5716.2E-06	0.049077236	5.40884E-07	0.004907724	5.4088E-08	0.343474571	0.00171737	0.40483059	1.5763TE-05	1.3037E-05
	9	7	10	9	140	1260	0.04078675	0.00018354	0.026377766	0.0001187	0.000558547	2.5135E-06	0.000514325	2.31446E-06	0.049077236	4.86885E-07	0.004907724	4.8689E-08	0.343474571	0.00154564	0.36434753	1.4187SE-05	1.1733E-05
	10	4	10	30	80	2400	0.02330672	0.000349031	0.015073009	0.000226095	0.00031917	4.7875E-06	0.0002939	4.4085E-06	0.028044135	9.27401E-07	0.002804413	9.274E-08	0.196271183	0.00294407	0.69399531	2.7023SE-05	2.2349E-05
								0.01		0.00		0.00		0.00		0.00		0.00		0.06	13.71	0.00	0.00

[1]Fugitive Dust PM2.5 was calculated based on a 0.1 ratio of PM2.5/PM10 as indicated in EPA 2006 AP-42 Background Document for Revisions to Fine Fraction Ratios used for AP-42 Fugitive Dust Emission Factors

Assumptions/Conversions
10 hours per equipment per day
Average trip length for workers estimated from CalEEMod

Unit		Source
453.59	g/lb	google.com
907185	g/ton	google.com
1000000	g/MT	

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: SACRAMENTO
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

						mi/day		ton/day																						
Region	Calendar Y	Vehicle Category	Model Yea	Speed	Fuel	Population	VMT	Trips	ROG_TOTAL	tons/mi	CO_TOTEX	tons/mi	NOx_TOTEX	tons/mi	CO2_TOTEX	CH4_RUNEX	CH4_IDLEX	CH4_STREXtons/mi		CH4_TOTEX	tons/mi	PM10_TOTEX	tons/mi	PM2.5_TOTEX	tons/mi	N2O_TOTEX	tons/mi	Fuel Consumptio	Ratio of Vehicle/Fuel Type to Total VMT	
SACRAMENTO	2022	LDA	Aggregate	Aggregate	GAS	591545.262	21127372	2764927.853	2.53848123	1.20152E-07	23.79674022	1.12635E-06	1.604662968	7.59518E-08	6377.280512	0.069818112	0	0.183189	0.000302	0.234837187	1.11153E-08	0.040734332	1.92804E-09	0.037454215	1.77278E-09	0.191637964	9.0706E-09	673.142382	0.680487	
SACRAMENTO	2022	LDA	Aggregate	Aggregate	DSL	5535.80976	200935.73	25811.77991	0.003463194	1.72353E-08	0.050667629	2.52158E-07	0.019588315	9.74855E-08	44.37503175	0.000172566	0	0	0.000221	0.000160859	8.00548E-10	0.001682593	8.37379E-09	0.001609805	8.01154E-09	0.006975137	3.47133E-08	3.954837305	0.006472	
SACRAMENTO	2022	LDA	Aggregate	Aggregate	ELEC	9888.8523	400963.41	49293.90524	0.000061887	1.54346E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.012915	
SACRAMENTO	2022	LDT1	Aggregate	Aggregate	GAS	64366.1407	2129386.5	29238.935	0.609130553	2.86059E-07	3.650421808	1.71431E-06	0.318473052	1.49561E-07	751.0801412	0.01490581	0	0.027964	0.000353	0.03892626	1.82805E-08	0.005399027	2.53548E-09	0.00496436	2.33136E-09	0.027915455	1.31096E-08	79.27891431	0.068585	
SACRAMENTO	2022	LDT1	Aggregate	Aggregate	DSL	189.851776	3346.8664	698.5120735	0.000461861	1.37998E-07	0.003712847	1.10935E-06	0.004384337	1.30998E-06	1.722253414	2.52555E-05	0	0	0.000515	2.14526E-05	6.40975E-09	0.00030265	9.04278E-08	0.000289557	8.65159E-08	0.000270714	8.08859E-08	0.153492443	0.000108	
SACRAMENTO	2022	LDT1	Aggregate	Aggregate	ELEC	398.561321	15899.45	1969.287214	2.48489E-05	1.56288E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000512	
SACRAMENTO	2022	LDT2	Aggregate	Aggregate	GAS	206880.886	7073751.3	955128.7989	1.369514426	1.93605E-07	10.57734649	1.4953E-06	0.97561493	1.3792E-07	2708.20357	0.03431868	0	0.085024	0.000383	0.111371418	1.57443E-08	0.01355983	1.91692E-09	0.012467989	1.76257E-09	0.089746307	1.26872E-08	285.8595601	0.227837	
SACRAMENTO	2022	LDT2	Aggregate	Aggregate	DSL	1121.98919	45564.461	5492.505939	0.000783936	1.7205E-08	0.006814764	1.49563E-07	0.00213853	4.69342E-08	13.68402831	3.38575E-05	0	0	0.0003	3.64123E-05	7.99138E-10	0.00025529	5.60284E-09	0.000244247	5.36046E-09	0.002150939	4.72065E-08	1.219562071	0.001468	0.001087
SACRAMENTO	2022	LDT2	Aggregate	Aggregate	ELEC	1542.24478	50193.831	7790.718854	9.70723E-05	1.93395E-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.001617	
SACRAMENTO	2022	T7 CAIRP construction	Aggregate	Aggregate	DSL	50.6218806	9128.3063	228.859554	0.000841381		0.007135841		0.047452653		17.46489773	5.6194E-05	3.96441E-06	0		3.908E-05		0.000273071		0.000261258		0.002745239		1.556524612		
SACRAMENTO	2022	T6 instate heavy	Aggregate	Aggregate	Diesel	1371.81513	184822.88	15830.55645	0.012529951		0.047587039		0.446575419		203.633899	0.000577561	4.42292E-06	0		0.000581984		0.004747398		0.004542028		0.032008413		18.14847018		

Emission Factors	ROG		CO		NOX		PM10		PM2.5		CO2	CH4	N2O
Vehicle Category	lb/mi	ton/mi	lb/mi	ton/mi	lb/mi	ton/mi	lb/mi	ton/mi	lb/mi	ton/mi	MT/mi	MT/mi	MT/mi
Truck Hauling (T7 CAIRP construction)	0.000184	9.21727E-08	0.001563	7.81727E-07	0.010397	5.1984E-06	5.983E-05	2.99148E-08	5.72414E-05	2.86207E-08	0.001735688	3.88383E-09	2.72826E-07
Worker Commute (composite of LDA, LDT)	0.000293	1.45667E-07	0.002453	1.22669E-06	0.000188	9.4206E-08	3.99E-06	1.99481E-09	3.67375E-06	1.83687E-09	0.000289165	1.12598E-08	9.3121E-09
T6 instate heavy	0.000136	6.77944E-08	0.000515	2.57474E-07	0.004832	2.4162E-06	5.137E-05	2.56862E-08	4.91501E-05	2.4575E-08	0.000995517	2.85661E-09	1.5711E-07

Fuel Consumption												
Region	Calendar Year	Vehicle Category	Model Year	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel Consumption 1000 gallons/day	Miles per gallon	Gasoline miles per gallon	Diesel miles per gallon
SACRAMENTO	2022	LDA	Aggregate	Aggregate	GAS	591545.262	21127372	2764927.853	673.142382	31.39	28.59	
SACRAMENTO	2022	LDT1	Aggregate	Aggregate	GAS	64366.1407	2129386.5	29238.935	79.27891431	26.86		
SACRAMENTO	2022	LDT2	Aggregate	Aggregate	GAS	206880.886	7073751.3	955128.7989	285.8595601	24.75		
SACRAMENTO	2022	LDT2	Aggregate	Aggregate	DSL	1121.98919	45564.461	5492.505939	1.219562071	37.36		37.36
SACRAMENTO	2022	T7 CAIRP construction	Aggregate	Aggregate	DSL	50.6218806	9128.3063	228.859554	1.556524612	5.86		5.86

Health Risk Assessment Scenario 1: Haul Route North

Haul trucks would travel along the top of the levee crossing the paved bicycle path adjacent to the 28th and B Street Skate Park. Bicycle traffic would be controlled by a dedicated flagger during construction to prevent collisions from occurring. Haul trucks would enter the main ingress point and deliver their loads along Site 1-1 and then continue along the top of the levee east to exit at Glenn Hall Park and continue on Carlson Drive to H Street. Haul trucks would travel north along Howe Avenue to I-80. This emissions scenario included 100 percent of the haul truck trips traveling north on Howe Avenue to I-80.

Control Pathway

Dispersion Options

Titles

C:\Users\shaurya.johari\OneDrive - Ascent Environmental\Desktop\Proj

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours: ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Scenario1N.err

Source Pathway - Source Inputs

Source Pathway - Source Inputs

Volume Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL3673	634994.79	4272245.06	8.21	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3674	635004.79	4272245.06	7.93	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3675	635014.79	4272245.06	6.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3676	635024.79	4272245.06	5.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3874	634994.79	4272235.06	8.41	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3875	635004.79	4272235.06	8.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3876	635014.79	4272235.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3877	635024.79	4272235.06	6.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3878	635034.79	4272235.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3879	635044.79	4272235.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3880	635054.79	4272235.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4075	634994.79	4272225.06	8.60	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4076	635004.79	4272225.06	8.21	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL4077	635014.79	4272225.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4078	635024.79	4272225.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4079	635034.79	4272225.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4080	635044.79	4272225.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4081	635054.79	4272225.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4082	635064.79	4272225.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4083	635074.79	4272225.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4276	634994.79	4272215.06	8.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4277	635004.79	4272215.06	8.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4278	635014.79	4272215.06	8.37	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4279	635024.79	4272215.06	8.14	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4280	635034.79	4272215.06	7.83	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4281	635044.79	4272215.06	6.74	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL4282	635054.79	4272215.06	5.65	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4283	635064.79	4272215.06	4.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4284	635074.79	4272215.06	4.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4285	635084.79	4272215.06	3.54	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4286	635094.79	4272215.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4478	635004.79	4272205.06	9.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4479	635014.79	4272205.06	8.74	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4480	635024.79	4272205.06	8.47	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4481	635034.79	4272205.06	8.17	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4482	635044.79	4272205.06	7.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4483	635054.79	4272205.06	6.87	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4484	635064.79	4272205.06	6.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4485	635074.79	4272205.06	5.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL4486	635084.79	4272205.06	4.04	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4487	635094.79	4272205.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4488	635104.79	4272205.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4680	635014.79	4272195.06	9.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4681	635024.79	4272195.06	8.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4682	635034.79	4272195.06	8.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4683	635044.79	4272195.06	8.30	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4684	635054.79	4272195.06	8.10	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4685	635064.79	4272195.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4686	635074.79	4272195.06	6.15	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4687	635084.79	4272195.06	4.53	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4688	635094.79	4272195.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4689	635104.79	4272195.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL4690	635114.79	4272195.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4882	635024.79	4272185.06	9.12	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4883	635034.79	4272185.06	8.82	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4884	635044.79	4272185.06	8.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4885	635054.79	4272185.06	8.34	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4886	635064.79	4272185.06	8.03	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4887	635074.79	4272185.06	6.87	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4888	635084.79	4272185.06	5.72	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4889	635094.79	4272185.06	4.65	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4890	635104.79	4272185.06	4.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4891	635114.79	4272185.06	4.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4892	635124.79	4272185.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5085	635044.79	4272175.06	8.85	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL5086	635054.79	4272175.06	8.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5087	635064.79	4272175.06	8.27	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5088	635074.79	4272175.06	7.59	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5089	635084.79	4272175.06	6.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5090	635094.79	4272175.06	6.27	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5091	635104.79	4272175.06	6.20	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5092	635114.79	4272175.06	6.14	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5093	635124.79	4272175.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5094	635134.79	4272175.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5287	635054.79	4272165.06	8.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5288	635064.79	4272165.06	8.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5289	635074.79	4272165.06	8.31	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5290	635084.79	4272165.06	8.10	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL5291	635094.79	4272165.06	7.90	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5292	635104.79	4272165.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5293	635114.79	4272165.06	7.69	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5294	635124.79	4272165.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5295	635134.79	4272165.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5296	635144.79	4272165.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5297	635154.79	4272165.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5490	635074.79	4272155.06	8.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5491	635084.79	4272155.06	8.24	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5492	635094.79	4272155.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5493	635104.79	4272155.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5494	635114.79	4272155.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5495	635124.79	4272155.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL5496	635134.79	4272155.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5497	635144.79	4272155.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5498	635154.79	4272155.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5499	635164.79	4272155.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5693	635094.79	4272145.06	8.12	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5694	635104.79	4272145.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5695	635114.79	4272145.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5696	635124.79	4272145.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5697	635134.79	4272145.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5698	635144.79	4272145.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5699	635154.79	4272145.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5700	635164.79	4272145.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5701	635174.79	4272145.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL5895	635104.79	4272135.06	8.12	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5896	635114.79	4272135.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5897	635124.79	4272135.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5898	635134.79	4272135.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5899	635144.79	4272135.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5900	635154.79	4272135.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5901	635164.79	4272135.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5902	635174.79	4272135.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5903	635184.79	4272135.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6097	635114.79	4272125.06	8.22	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6098	635124.79	4272125.06	8.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6099	635134.79	4272125.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6100	635144.79	4272125.06	7.84	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL6101	635154.79	4272125.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6102	635164.79	4272125.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6103	635174.79	4272125.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6104	635184.79	4272125.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6105	635194.79	4272125.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6298	635114.79	4272115.06	8.42	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6299	635124.79	4272115.06	8.31	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6300	635134.79	4272115.06	8.15	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6301	635144.79	4272115.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6302	635154.79	4272115.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6303	635164.79	4272115.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6304	635174.79	4272115.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6305	635184.79	4272115.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL6306	635194.79	4272115.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6307	635204.79	4272115.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6498	635104.79	4272105.06	8.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6499	635114.79	4272105.06	8.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6500	635124.79	4272105.06	8.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6501	635134.79	4272105.06	8.31	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6502	635144.79	4272105.06	8.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6503	635154.79	4272105.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6504	635164.79	4272105.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6505	635174.79	4272105.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6506	635184.79	4272105.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6507	635194.79	4272105.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6508	635204.79	4272105.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL6509	635214.79	4272105.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6699	635104.79	4272095.06	8.89	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6700	635114.79	4272095.06	8.76	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6701	635124.79	4272095.06	8.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6702	635134.79	4272095.06	8.41	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6703	635144.79	4272095.06	8.21	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6704	635154.79	4272095.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6705	635164.79	4272095.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6706	635174.79	4272095.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6707	635184.79	4272095.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6708	635194.79	4272095.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6709	635204.79	4272095.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6710	635214.79	4272095.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL6711	635224.79	4272095.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6900	635104.79	4272085.06	9.06	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6901	635114.79	4272085.06	8.89	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6902	635124.79	4272085.06	8.72	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6903	635134.79	4272085.06	8.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6907	635174.79	4272085.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6908	635184.79	4272085.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6909	635194.79	4272085.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6910	635204.79	4272085.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6911	635214.79	4272085.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6912	635224.79	4272085.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6913	635234.79	4272085.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7101	635104.79	4272075.06	9.23	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL7102	635114.79	4272075.06	9.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7103	635124.79	4272075.06	8.82	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7109	635184.79	4272075.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7110	635194.79	4272075.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7111	635204.79	4272075.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7112	635214.79	4272075.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7113	635224.79	4272075.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7114	635234.79	4272075.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7115	635244.79	4272075.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7302	635104.79	4272065.06	9.29	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7303	635114.79	4272065.06	9.06	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7311	635194.79	4272065.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7312	635204.79	4272065.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL7313	635214.79	4272065.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7314	635224.79	4272065.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7315	635234.79	4272065.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7316	635244.79	4272065.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7317	635254.79	4272065.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7513	635204.79	4272055.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7514	635214.79	4272055.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7515	635224.79	4272055.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7516	635234.79	4272055.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7517	635244.79	4272055.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7518	635254.79	4272055.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7519	635264.79	4272055.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7716	635224.79	4272045.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL7717	635234.79	4272045.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7718	635244.79	4272045.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7719	635254.79	4272045.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7720	635264.79	4272045.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7721	635274.79	4272045.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7918	635234.79	4272035.06	7.84	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7919	635244.79	4272035.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7920	635254.79	4272035.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7921	635264.79	4272035.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7922	635274.79	4272035.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7923	635284.79	4272035.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8120	635244.79	4272025.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8121	635254.79	4272025.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL8122	635264.79	4272025.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8123	635274.79	4272025.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8124	635284.79	4272025.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8125	635294.79	4272025.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8322	635254.79	4272015.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8323	635264.79	4272015.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8324	635274.79	4272015.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8325	635284.79	4272015.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8326	635294.79	4272015.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8327	635304.79	4272015.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8524	635264.79	4272005.06	7.94	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8525	635274.79	4272005.06	7.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8526	635284.79	4272005.06	6.64	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL8527	635294.79	4272005.06	5.55	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8528	635304.79	4272005.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8529	635314.79	4272005.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8726	635274.79	4271995.06	7.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8727	635284.79	4271995.06	7.32	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8728	635294.79	4271995.06	6.67	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8729	635304.79	4271995.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8730	635314.79	4271995.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8731	635324.79	4271995.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8928	635284.79	4271985.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8929	635294.79	4271985.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8930	635304.79	4271985.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8931	635314.79	4271985.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL8932	635324.79	4271985.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8933	635334.79	4271985.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9130	635294.79	4271975.06	8.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9131	635304.79	4271975.06	7.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9132	635314.79	4271975.06	6.68	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9133	635324.79	4271975.06	5.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9134	635334.79	4271975.06	4.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9135	635344.79	4271975.06	4.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9332	635304.79	4271965.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9333	635314.79	4271965.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9334	635324.79	4271965.06	6.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9335	635334.79	4271965.06	6.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9336	635344.79	4271965.06	5.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL9337	635354.79	4271965.06	4.04	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9534	635314.79	4271955.06	8.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9535	635324.79	4271955.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9536	635334.79	4271955.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9537	635344.79	4271955.06	6.15	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9538	635354.79	4271955.06	4.53	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9539	635364.79	4271955.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9736	635324.79	4271945.06	8.15	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9737	635334.79	4271945.06	7.93	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9738	635344.79	4271945.06	6.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9739	635354.79	4271945.06	5.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9740	635364.79	4271945.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9741	635374.79	4271945.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL9938	635334.79	4271935.06	8.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9939	635344.79	4271935.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9940	635354.79	4271935.06	6.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9941	635364.79	4271935.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9942	635374.79	4271935.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9943	635384.79	4271935.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10140	635344.79	4271925.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10141	635354.79	4271925.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10142	635364.79	4271925.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10143	635374.79	4271925.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10144	635384.79	4271925.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10145	635394.79	4271925.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10342	635354.79	4271915.06	8.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL10343	635364.79	4271915.06	7.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10344	635374.79	4271915.06	6.64	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10345	635384.79	4271915.06	5.55	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10346	635394.79	4271915.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10347	635404.79	4271915.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10544	635364.79	4271905.06	7.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10545	635374.79	4271905.06	7.32	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10546	635384.79	4271905.06	6.67	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10547	635394.79	4271905.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10548	635404.79	4271905.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10549	635414.79	4271905.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10746	635374.79	4271895.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10747	635384.79	4271895.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL10748	635394.79	4271895.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10749	635404.79	4271895.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10750	635414.79	4271895.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10751	635424.79	4271895.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10948	635384.79	4271885.06	8.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10949	635394.79	4271885.06	7.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10950	635404.79	4271885.06	6.64	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10951	635414.79	4271885.06	5.55	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10952	635424.79	4271885.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10953	635434.79	4271885.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11150	635394.79	4271875.06	7.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11151	635404.79	4271875.06	7.32	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11152	635414.79	4271875.06	6.67	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL11153	635424.79	4271875.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11154	635434.79	4271875.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11155	635444.79	4271875.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11352	635404.79	4271865.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11353	635414.79	4271865.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11354	635424.79	4271865.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11355	635434.79	4271865.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11356	635444.79	4271865.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11357	635454.79	4271865.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11554	635414.79	4271855.06	7.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11555	635424.79	4271855.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11556	635434.79	4271855.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11557	635444.79	4271855.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL11558	635454.79	4271855.06	4.55	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11559	635464.79	4271855.06	4.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11756	635424.79	4271845.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11757	635434.79	4271845.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11758	635444.79	4271845.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11759	635454.79	4271845.06	6.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11760	635464.79	4271845.06	6.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11761	635474.79	4271845.06	5.94	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11958	635434.79	4271835.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11959	635444.79	4271835.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11960	635454.79	4271835.06	7.59	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11961	635464.79	4271835.06	7.49	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11962	635474.79	4271835.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL11963	635484.79	4271835.06	7.18	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12160	635444.79	4271825.06	7.78	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12161	635454.79	4271825.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12162	635464.79	4271825.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12163	635474.79	4271825.06	7.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12164	635484.79	4271825.06	7.33	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12165	635494.79	4271825.06	6.35	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12362	635454.79	4271815.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12363	635464.79	4271815.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12364	635474.79	4271815.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12365	635484.79	4271815.06	7.47	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12366	635494.79	4271815.06	6.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12367	635504.79	4271815.06	6.38	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL12564	635464.79	4271805.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12565	635474.79	4271805.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12566	635484.79	4271805.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12567	635494.79	4271805.06	7.50	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12568	635504.79	4271805.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12569	635514.79	4271805.06	7.29	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12766	635474.79	4271795.06	7.78	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12767	635484.79	4271795.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12768	635494.79	4271795.06	7.65	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12769	635504.79	4271795.06	7.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12770	635514.79	4271795.06	7.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12771	635524.79	4271795.06	7.41	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12772	635534.79	4271795.06	7.30	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL12969	635494.79	4271785.06	7.78	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12970	635504.79	4271785.06	7.75	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12971	635514.79	4271785.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12972	635524.79	4271785.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12973	635534.79	4271785.06	7.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12974	635544.79	4271785.06	7.37	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13171	635504.79	4271775.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13172	635514.79	4271775.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13173	635524.79	4271775.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13174	635534.79	4271775.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13175	635544.79	4271775.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13176	635554.79	4271775.06	7.50	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13177	635564.79	4271775.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL13373	635514.79	4271765.06	8.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13374	635524.79	4271765.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13375	635534.79	4271765.06	7.84	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13376	635544.79	4271765.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13377	635554.79	4271765.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13378	635564.79	4271765.06	7.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13379	635574.79	4271765.06	7.34	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13380	635584.79	4271765.06	6.38	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13576	635534.79	4271755.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13577	635544.79	4271755.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13578	635554.79	4271755.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13579	635564.79	4271755.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13580	635574.79	4271755.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL13581	635584.79	4271755.06	7.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13582	635594.79	4271755.06	6.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13778	635544.79	4271745.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13779	635554.79	4271745.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13780	635564.79	4271745.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13781	635574.79	4271745.06	7.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13782	635584.79	4271745.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13783	635594.79	4271745.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13980	635554.79	4271735.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13981	635564.79	4271735.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13982	635574.79	4271735.06	7.82	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13983	635584.79	4271735.06	7.78	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13984	635594.79	4271735.06	7.75	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL14183	635574.79	4271725.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL14184	635584.79	4271725.06	7.95	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL14185	635594.79	4271725.06	7.88	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL14385	635584.79	4271715.06	8.12	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL14386	635594.79	4271715.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: SLINE1

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000	Surface-Based	635627.22	4271668.87	8.03	0.00
			635678.48	4271627.41	7.93	0.00
			635713.15	4271598.81	8.05	0.00
			635786.46	4271555.07	7.97	0.00
			635900.70	4271508.53	7.94	0.00
			635992.20	4271481.05	7.94	0.00
			636109.63	4271456.57	7.95	0.00
			636163.79	4271449.98	7.95	0.00
			636275.46	4271432.82	7.92	0.00
			636374.42	4271416.33	7.95	0.00
			636417.88	4271413.69	7.93	0.00
			636492.77	4271413.03	8.01	0.00
			636656.59	4271426.88	9.14	0.00
			636871.89	4271447.34	9.14	0.00
			636954.81	4271453.27	9.44	0.00
			636990.25	4271447.34	9.76	0.00
			637018.75	4271437.79	9.79	0.00
			637061.55	4271420.63	10.36	0.00
			637136.44	4271361.25	9.75	0.00
			637160.51	4271342.78	9.78	0.00
			637028.78	4271181.79	9.28	0.00
			636849.57	4270963.98	9.45	0.00
			636746.21	4270837.25	9.16	0.00
			636625.64	4270690.52	9.14	0.00
			636594.21	4270647.63	9.33	0.00
			636572.81	4270590.87	10.51	0.00
			636564.11	4270547.98	10.37	0.00
			636560.77	4270509.70	10.37	0.00
			636576.32	4270399.54	10.67	0.00
			636598.10	4270344.74	10.67	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: SLINE1

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000	Surface-Based	636620.98	4270312.50	10.67	0.00
			636691.26	4270254.85	10.68	0.00
			636730.47	4270232.29	10.67	0.00
			636755.52	4270216.17	10.67	0.00
			636780.57	4270187.15	10.67	0.00
			636807.80	4270149.54	10.67	0.00
			636850.74	4269993.51	10.85	0.00
			636868.83	4269925.08	11.42	0.00
			636920.08	4269843.28	12.13	0.00
			636974.55	4269921.97	11.98	0.00
			637102.48	4270032.12	10.05	0.00
			637212.53	4270075.31	8.89	0.00
			637394.93	4270112.50	4.80	0.00
			637565.28	4270158.61	9.97	0.00
			637616.57	4270188.32	10.67	0.00
			637687.62	4270268.52	10.28	0.00
			637756.97	4270371.19	10.02	0.00
			637878.13	4270572.07	10.67	0.00
			637957.65	4270668.25	10.65	0.00
			638019.11	4270707.53	10.67	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: SLINE4

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000	Surface-Based	634976.01	4272290.84	7.94	0.00
			634931.09	4272334.03	7.68	0.00
			634891.35	4272344.40	7.91	0.00
			634858.53	4272358.22	7.98	0.00
			634817.06	4272382.41	7.93	0.00
			634749.67	4272392.78	7.68	0.00
			634557.89	4272370.32	7.93	0.00
			634258.98	4272251.10	7.92	0.00
			634060.29	4272161.26	8.14	0.00
			634003.27	4272131.88	8.86	0.00
			633960.08	4272097.33	9.81	0.00
			633942.80	4272067.96	10.05	0.00
			633923.79	4271986.75	7.89	0.00
			633887.51	4271953.92	6.27	0.00
			633858.14	4271943.56	7.21	0.00
			633808.03	4271936.64	7.32	0.00
			633783.84	4271917.64	7.32	0.00
			633692.27	4271672.29	10.51	0.00
			633544.70	4271212.56	7.32	0.00
			633720.57	4271149.54	7.62	0.00
			633847.18	4271475.92	7.63	0.00
			633965.35	4271613.78	6.88	0.00
			634111.66	4271746.02	7.61	0.00
			634294.54	4271813.55	6.69	0.00
			634508.37	4271852.94	7.64	0.00
			634964.17	4271923.28	7.75	0.00
			635054.20	4271954.23	8.87	0.00
			635172.38	4272047.08	8.38	0.00
			635238.09	4272141.44	3.05	0.00
			635268.93	4272217.82	3.13	0.00
			635551.90	4273200.88	7.83	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: SLINE4

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000	Surface-Based	635551.56	4273300.41	8.54	0.00
			635506.87	4273347.82	8.81	0.00
			635455.50	4273332.65	8.84	0.00
			635439.49	4273303.60	8.47	0.00
			635438.85	4273260.82	7.85	0.00
			635475.75	4273226.23	7.69	0.00
			635541.07	4273195.39	7.90	0.00

Source Type: LINE VOLUME
Source: SLINE5

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
7.50	1.00000	Surface-Based	635557.13	4273191.99	7.83	0.00
			635636.74	4273164.09	8.26	0.00
			635751.75	4273125.98	8.82	0.00
			635898.40	4273081.67	7.84	0.00
			636264.39	4273052.96	8.81	0.00
			636833.72	4273017.08	8.84	0.00
			637387.60	4273088.91	12.82	0.00
			637477.19	4273108.38	11.88	0.00
			637547.30	4273057.75	10.63	0.00
			637594.04	4272979.84	9.79	0.00
			637597.94	4272461.78	9.14	0.00
			637597.94	4272356.61	9.37	0.00
			638010.83	4272364.40	12.23	0.00
			638038.95	4270753.29	10.67	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: SLINE6

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000	Surface-Based	633693.06	4271142.88	7.62	1.70
			633499.88	4270557.50	7.62	1.70
			633540.86	4270548.72	7.61	1.70
			633719.40	4271139.95	7.62	1.70

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000001	635630.50	4271666.22	7.95	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000002	635637.06	4271660.91	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000003	635643.62	4271655.60	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000004	635650.19	4271650.30	7.95	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000005	635656.75	4271644.99	7.95	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000006	635663.31	4271639.68	7.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000007	635669.87	4271634.37	7.91	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000008	635676.43	4271629.06	7.91	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000009	635682.96	4271623.71	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000010	635689.47	4271618.34	8.00	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000011	635695.98	4271612.97	8.03	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000012	635702.49	4271607.60	8.01	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000013	635709.00	4271602.23	8.00	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000014	635715.78	4271597.24	7.98	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000015	635723.03	4271592.92	7.95	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000016	635730.28	4271588.59	7.99	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000017	635737.53	4271584.27	8.03	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000018	635744.77	4271579.94	8.08	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000019	635752.02	4271575.62	8.12	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000020	635759.27	4271571.29	8.11	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000021	635766.52	4271566.97	8.08	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000022	635773.77	4271562.65	8.04	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000023	635781.02	4271558.32	8.02	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000024	635788.40	4271554.28	7.99	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000025	635796.22	4271551.10	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000026	635804.04	4271547.91	7.89	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000027	635811.85	4271544.73	7.85	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000028	635819.67	4271541.54	7.86	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000029	635827.49	4271538.36	7.89	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000030	635835.30	4271535.17	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000031	635843.12	4271531.99	7.95	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000032	635850.93	4271528.80	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000033	635858.75	4271525.62	7.87	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000034	635866.57	4271522.43	7.82	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000035	635874.38	4271519.25	7.78	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000036	635882.20	4271516.07	7.81	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000037	635890.01	4271512.88	7.84	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000038	635897.83	4271509.70	7.88	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000039	635905.82	4271506.99	7.90	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000040	635913.90	4271504.56	7.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000041	635921.98	4271502.14	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000042	635930.07	4271499.71	7.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000043	635938.15	4271497.28	7.89	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000044	635946.23	4271494.85	7.84	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000045	635954.32	4271492.43	7.80	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000046	635962.40	4271490.00	7.78	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000047	635970.48	4271487.57	7.80	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000048	635978.57	4271485.14	7.82	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000049	635986.65	4271482.72	7.85	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000050	635994.79	4271480.51	7.87	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000051	636003.05	4271478.79	7.89	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000052	636011.31	4271477.07	7.90	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000053	636019.58	4271475.34	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000054	636027.84	4271473.62	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000055	636036.10	4271471.90	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000056	636044.36	4271470.18	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000057	636052.63	4271468.46	7.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000058	636060.89	4271466.73	7.87	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000059	636069.15	4271465.01	7.82	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000060	636077.41	4271463.29	7.78	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000061	636085.68	4271461.57	7.76	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000062	636093.94	4271459.84	7.77	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000063	636102.20	4271458.12	7.79	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000064	636110.47	4271456.47	7.81	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000065	636118.85	4271455.45	7.82	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000066	636127.23	4271454.43	7.83	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000067	636135.61	4271453.41	7.84	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000068	636143.99	4271452.39	7.85	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000069	636152.37	4271451.37	7.58	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000070	636160.74	4271450.35	7.41	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000071	636169.10	4271449.16	7.34	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000072	636177.44	4271447.88	7.50	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000073	636185.78	4271446.60	7.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000074	636194.12	4271445.32	7.90	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000075	636202.47	4271444.04	7.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000076	636210.81	4271442.75	7.95	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000077	636219.15	4271441.47	7.96	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000078	636227.49	4271440.19	7.97	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000079	636235.84	4271438.91	7.98	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000080	636244.18	4271437.63	7.97	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000081	636252.52	4271436.35	7.96	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000082	636260.86	4271435.06	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000083	636269.20	4271433.78	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000084	636277.54	4271432.48	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000085	636285.87	4271431.09	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000086	636294.19	4271429.70	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000087	636302.52	4271428.31	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000088	636310.84	4271426.93	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000089	636319.17	4271425.54	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000090	636327.49	4271424.15	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000091	636335.82	4271422.76	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000092	636344.14	4271421.37	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000093	636352.47	4271419.99	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000094	636360.79	4271418.60	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000095	636369.12	4271417.21	7.91	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000096	636377.48	4271416.14	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000097	636385.90	4271415.63	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000098	636394.33	4271415.12	7.92	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000099	636402.75	4271414.61	7.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000100	636411.18	4271414.10	7.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000101	636419.61	4271413.67	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000102	636428.05	4271413.60	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000103	636436.48	4271413.53	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000104	636444.92	4271413.45	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000105	636453.36	4271413.38	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000106	636461.80	4271413.30	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000107	636470.24	4271413.23	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000108	636478.68	4271413.15	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000109	636487.12	4271413.08	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000110	636495.55	4271413.27	7.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000111	636503.96	4271413.98	7.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000112	636512.37	4271414.69	8.27	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000113	636520.78	4271415.40	8.61	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000114	636529.19	4271416.11	8.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000115	636537.60	4271416.82	9.13	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000116	636546.01	4271417.53	9.13	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000117	636554.42	4271418.24	9.13	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000118	636562.83	4271418.96	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000119	636571.24	4271419.67	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000120	636579.65	4271420.38	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000121	636588.06	4271421.09	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000122	636596.47	4271421.80	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000123	636604.88	4271422.51	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000124	636613.29	4271423.22	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000125	636621.70	4271423.93	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000126	636630.11	4271424.65	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000127	636638.52	4271425.36	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000128	636646.93	4271426.07	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000129	636655.34	4271426.78	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000130	636663.75	4271427.56	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000131	636672.15	4271428.36	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000132	636680.55	4271429.16	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000133	636688.95	4271429.96	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000134	636697.35	4271430.76	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000135	636705.76	4271431.56	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000136	636714.16	4271432.35	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000137	636722.56	4271433.15	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000138	636730.96	4271433.95	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000139	636739.37	4271434.75	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000140	636747.77	4271435.55	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000141	636756.17	4271436.34	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000142	636764.57	4271437.14	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000143	636772.97	4271437.94	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000144	636781.38	4271438.74	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000145	636789.78	4271439.54	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000146	636798.18	4271440.33	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000147	636806.58	4271441.13	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000148	636814.98	4271441.93	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000149	636823.39	4271442.73	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000150	636831.79	4271443.53	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000151	636840.19	4271444.33	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000152	636848.59	4271445.12	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000153	636857.00	4271445.92	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000154	636865.40	4271446.72	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000155	636873.80	4271447.47	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000156	636882.22	4271448.08	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000157	636890.64	4271448.68	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000158	636899.06	4271449.28	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000159	636907.48	4271449.89	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000160	636915.90	4271450.49	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000161	636924.31	4271451.09	9.15	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000162	636932.73	4271451.69	9.21	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000163	636941.15	4271452.30	9.28	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000164	636949.57	4271452.90	9.33	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000165	636957.95	4271452.75	9.41	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000166	636966.28	4271451.35	9.51	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000167	636974.60	4271449.96	9.61	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000168	636982.92	4271448.56	9.71	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000169	636991.21	4271447.01	9.74	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000170	636999.21	4271444.33	9.76	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000171	637007.22	4271441.65	9.78	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000172	637015.22	4271438.97	9.83	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000173	637023.13	4271436.03	9.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000174	637030.96	4271432.89	10.05	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000175	637038.79	4271429.75	10.16	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000176	637046.63	4271426.61	10.27	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000177	637054.46	4271423.47	10.34	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000178	637062.18	4271420.13	10.37	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000179	637068.79	4271414.89	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000180	637075.41	4271409.64	10.32	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000181	637082.02	4271404.40	10.31	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000182	637088.63	4271399.16	10.27	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000183	637095.25	4271393.91	10.21	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000184	637101.86	4271388.67	10.13	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000185	637108.47	4271383.42	10.04	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000186	637115.09	4271378.18	9.99	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000187	637121.70	4271372.94	9.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000188	637128.31	4271367.69	9.88	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000189	637134.93	4271362.45	9.82	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000190	637141.61	4271357.29	9.76	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000191	637148.30	4271352.15	9.77	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000192	637155.00	4271347.01	9.81	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000193	637159.57	4271341.63	9.87	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000194	637154.22	4271335.10	9.89	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000195	637148.88	4271328.56	9.89	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000196	637143.53	4271322.03	9.85	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000197	637138.19	4271315.50	9.80	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000198	637132.84	4271308.97	9.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000199	637127.50	4271302.44	9.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000200	637122.15	4271295.90	9.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000201	637116.81	4271289.37	9.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000202	637111.46	4271282.84	9.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000203	637106.12	4271276.31	9.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000204	637100.77	4271269.78	9.73	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000205	637095.43	4271263.24	9.65	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000206	637090.08	4271256.71	9.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000207	637084.74	4271250.18	9.50	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000208	637079.39	4271243.65	9.46	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000209	637074.05	4271237.12	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000210	637068.70	4271230.58	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000211	637063.36	4271224.05	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000212	637058.01	4271217.52	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000213	637052.67	4271210.99	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000214	637047.32	4271204.46	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000215	637041.98	4271197.93	9.43	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000216	637036.64	4271191.39	9.37	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000217	637031.29	4271184.86	9.32	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000218	637025.94	4271178.34	9.27	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000219	637020.57	4271171.82	9.21	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000220	637015.21	4271165.30	9.16	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000221	637009.85	4271158.78	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000222	637004.49	4271152.27	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000223	636999.12	4271145.75	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000224	636993.76	4271139.23	9.16	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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SLINE1	L0000225	636988.40	4271132.71	9.16	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000226	636983.04	4271126.20	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000227	636977.67	4271119.68	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000228	636972.31	4271113.16	9.15	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000229	636966.95	4271106.64	9.18	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000230	636961.59	4271100.13	9.18	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000231	636956.23	4271093.61	9.16	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000232	636950.86	4271087.09	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000233	636945.50	4271080.57	9.19	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000234	636940.14	4271074.06	9.25	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000235	636934.78	4271067.54	9.32	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000236	636929.41	4271061.02	9.39	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000237	636924.05	4271054.50	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000238	636918.69	4271047.99	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000239	636913.33	4271041.47	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000240	636907.96	4271034.95	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000241	636902.60	4271028.43	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000242	636897.24	4271021.92	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000243	636891.88	4271015.40	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000244	636886.51	4271008.88	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000245	636881.15	4271002.36	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000246	636875.79	4270995.84	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000247	636870.43	4270989.33	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000248	636865.07	4270982.81	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000249	636859.70	4270976.29	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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SLINE1	L0000250	636854.34	4270969.77	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000251	636848.98	4270963.25	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000252	636843.65	4270956.71	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000253	636838.31	4270950.17	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000254	636832.98	4270943.63	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000255	636827.64	4270937.09	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000256	636822.31	4270930.55	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000257	636816.97	4270924.01	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000258	636811.64	4270917.47	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000259	636806.31	4270910.93	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000260	636800.97	4270904.39	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000261	636795.64	4270897.85	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000262	636790.30	4270891.31	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000263	636784.97	4270884.77	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000264	636779.63	4270878.23	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000265	636774.30	4270871.69	9.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000266	636768.96	4270865.15	9.40	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000267	636763.63	4270858.61	9.34	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000268	636758.30	4270852.07	9.29	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000269	636752.96	4270845.53	9.24	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000270	636747.63	4270838.99	9.18	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000271	636742.27	4270832.46	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000272	636736.92	4270825.94	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000273	636731.56	4270819.42	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000274	636726.20	4270812.90	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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SLINE1	L0000275	636720.84	4270806.38	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000276	636715.48	4270799.86	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000277	636710.13	4270793.33	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000278	636704.77	4270786.81	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000279	636699.41	4270780.29	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000280	636694.05	4270773.77	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000281	636688.69	4270767.25	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000282	636683.33	4270760.73	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000283	636677.98	4270754.21	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000284	636672.62	4270747.69	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000285	636667.26	4270741.17	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000286	636661.90	4270734.65	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000287	636656.54	4270728.13	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000288	636651.18	4270721.60	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000289	636645.83	4270715.08	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000290	636640.47	4270708.56	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000291	636635.11	4270702.04	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000292	636629.75	4270695.52	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000293	636624.48	4270688.93	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000294	636619.49	4270682.12	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000295	636614.50	4270675.32	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000296	636609.51	4270668.51	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000297	636604.52	4270661.70	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000298	636599.53	4270654.89	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000299	636594.55	4270648.09	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000300	636591.43	4270640.26	9.21	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000301	636588.45	4270632.37	9.39	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000302	636585.48	4270624.47	9.69	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000303	636582.50	4270616.57	9.98	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000304	636579.52	4270608.67	10.26	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000305	636576.54	4270600.78	10.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000306	636573.56	4270592.88	10.55	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000307	636571.56	4270584.70	10.62	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000308	636569.88	4270576.43	10.66	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000309	636568.20	4270568.16	10.61	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000310	636566.53	4270559.89	10.53	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000311	636564.85	4270551.62	10.44	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000312	636563.70	4270543.27	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000313	636562.97	4270534.86	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000314	636562.23	4270526.45	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000315	636561.50	4270518.04	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000316	636560.78	4270509.64	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000317	636561.96	4270501.28	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000318	636563.14	4270492.92	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000319	636564.32	4270484.57	10.37	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000320	636565.50	4270476.21	10.38	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000321	636566.68	4270467.85	10.39	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000322	636567.86	4270459.49	10.40	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000323	636569.04	4270451.14	10.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000324	636570.22	4270442.78	10.52	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000325	636571.40	4270434.42	10.60	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000326	636572.58	4270426.07	10.66	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000327	636573.76	4270417.71	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000328	636574.94	4270409.35	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000329	636576.12	4270401.00	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000330	636578.90	4270393.06	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000331	636582.01	4270385.22	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000332	636585.13	4270377.38	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000333	636588.25	4270369.53	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000334	636591.37	4270361.69	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000335	636594.48	4270353.85	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000336	636597.60	4270346.00	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000337	636602.20	4270338.96	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000338	636607.08	4270332.08	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000339	636611.97	4270325.20	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000340	636616.85	4270318.31	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000341	636621.99	4270311.67	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000342	636628.51	4270306.32	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000343	636635.04	4270300.96	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000344	636641.57	4270295.61	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000345	636648.09	4270290.26	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000346	636654.62	4270284.91	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000347	636661.14	4270279.55	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000348	636667.67	4270274.20	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000349	636674.19	4270268.85	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000350	636680.72	4270263.50	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000351	636687.25	4270258.14	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000352	636694.08	4270253.23	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000353	636701.39	4270249.02	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000354	636708.71	4270244.81	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000355	636716.02	4270240.60	10.71	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000356	636723.34	4270236.39	10.73	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000357	636730.64	4270232.17	10.73	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000358	636737.74	4270227.60	10.70	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000359	636744.84	4270223.04	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000360	636751.94	4270218.47	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000361	636758.25	4270213.00	10.68	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000362	636763.77	4270206.61	10.70	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000363	636769.28	4270200.22	10.69	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000364	636774.80	4270193.84	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000365	636780.31	4270187.45	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000366	636785.29	4270180.63	10.70	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000367	636790.24	4270173.79	10.72	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000368	636795.19	4270166.96	10.72	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000369	636800.14	4270160.12	10.70	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000370	636805.09	4270153.28	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000371	636808.81	4270145.86	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000372	636811.05	4270137.72	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000373	636813.29	4270129.59	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000374	636815.53	4270121.45	10.69	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000375	636817.77	4270113.31	10.73	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000376	636820.01	4270105.17	10.76	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000377	636822.25	4270097.04	10.78	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000378	636824.49	4270088.90	10.76	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000379	636826.72	4270080.76	10.74	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000380	636828.96	4270072.62	10.72	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000381	636831.20	4270064.49	10.70	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000382	636833.44	4270056.35	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000383	636835.68	4270048.21	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000384	636837.92	4270040.07	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000385	636840.16	4270031.94	10.69	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000386	636842.40	4270023.80	10.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000387	636844.64	4270015.66	10.79	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000388	636846.88	4270007.52	10.83	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000389	636849.12	4269999.39	10.88	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000390	636851.33	4269991.24	10.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000391	636853.49	4269983.08	11.00	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000392	636855.65	4269974.92	11.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000393	636857.81	4269966.76	11.07	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000394	636859.96	4269958.60	11.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000395	636862.12	4269950.44	11.02	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000396	636864.28	4269942.28	11.00	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000397	636866.44	4269934.12	11.11	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000398	636868.59	4269925.96	11.25	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000399	636872.82	4269918.70	11.48	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000400	636877.30	4269911.55	11.63	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000401	636881.79	4269904.40	11.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000402	636886.27	4269897.25	11.73	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000403	636890.75	4269890.09	11.81	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000404	636895.23	4269882.94	11.90	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000405	636899.71	4269875.79	11.94	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000406	636904.19	4269868.64	12.01	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000407	636908.67	4269861.49	12.09	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000408	636913.15	4269854.33	12.19	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000409	636917.63	4269847.18	12.13	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000410	636922.26	4269846.43	12.11	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000411	636927.06	4269853.37	12.18	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000412	636931.87	4269860.31	12.11	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000413	636936.67	4269867.25	12.05	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000414	636941.47	4269874.19	12.03	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000415	636946.28	4269881.13	12.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000416	636951.08	4269888.07	12.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000417	636955.88	4269895.01	12.19	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000418	636960.69	4269901.95	12.15	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000419	636965.49	4269908.89	12.10	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000420	636970.29	4269915.83	12.02	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000421	636975.28	4269922.60	11.95	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000422	636981.67	4269928.11	11.90	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000423	636988.07	4269933.62	11.82	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000424	636994.47	4269939.12	11.69	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000425	637000.86	4269944.63	11.55	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000426	637007.26	4269950.14	11.34	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000427	637013.66	4269955.64	11.17	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000428	637020.05	4269961.15	11.05	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000429	637026.45	4269966.66	10.93	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000430	637032.84	4269972.16	10.81	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000431	637039.24	4269977.67	10.69	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000432	637045.64	4269983.18	10.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000433	637052.03	4269988.68	10.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000434	637058.43	4269994.19	10.33	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000435	637064.82	4269999.70	10.20	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000436	637071.22	4270005.20	10.09	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000437	637077.62	4270010.71	10.03	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000438	637084.01	4270016.22	9.99	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000439	637090.41	4270021.72	9.98	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000440	637096.81	4270027.23	10.00	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000441	637103.37	4270032.47	10.03	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000442	637111.22	4270035.55	9.98	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000443	637119.08	4270038.63	9.90	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000444	637126.93	4270041.72	9.82	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000445	637134.79	4270044.80	9.75	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000446	637142.65	4270047.88	9.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000447	637150.50	4270050.97	9.59	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000448	637158.36	4270054.05	9.51	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000449	637166.22	4270057.13	9.43	0.00	0.00172	8.44	Surface-Based	3.93	1.93

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000450	637174.07	4270060.22	9.35	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000451	637181.93	4270063.30	9.27	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000452	637189.79	4270066.39	9.19	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000453	637197.64	4270069.47	9.11	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000454	637205.50	4270072.55	9.03	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000455	637213.40	4270075.49	8.95	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000456	637221.67	4270077.18	8.86	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000457	637229.94	4270078.86	8.72	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000458	637238.21	4270080.55	8.55	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000459	637246.48	4270082.23	8.38	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000460	637254.75	4270083.92	8.22	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000461	637263.02	4270085.61	8.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000462	637271.29	4270087.29	8.05	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000463	637279.56	4270088.98	7.97	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000464	637287.83	4270090.66	7.89	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000465	637296.10	4270092.35	7.80	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000466	637304.37	4270094.03	7.72	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000467	637312.64	4270095.72	7.56	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000468	637320.91	4270097.41	6.72	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000469	637329.18	4270099.09	5.86	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000470	637337.45	4270100.78	5.10	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000471	637345.72	4270102.46	4.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000472	637353.99	4270104.15	4.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000473	637362.26	4270105.84	4.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000474	637370.53	4270107.52	4.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000475	637378.80	4270109.21	4.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000476	637387.07	4270110.89	4.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000477	637395.33	4270112.61	4.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000478	637403.48	4270114.81	4.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000479	637411.63	4270117.02	5.45	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000480	637419.77	4270119.22	6.41	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000481	637427.92	4270121.43	7.41	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000482	637436.07	4270123.63	8.23	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000483	637444.21	4270125.84	8.43	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000484	637452.36	4270128.04	8.58	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000485	637460.51	4270130.25	8.76	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000486	637468.65	4270132.45	8.90	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000487	637476.80	4270134.66	9.01	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000488	637484.95	4270136.86	9.14	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000489	637493.09	4270139.07	9.27	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000490	637501.24	4270141.27	9.27	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000491	637509.39	4270143.48	9.24	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000492	637517.53	4270145.68	9.19	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000493	637525.68	4270147.89	9.18	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000494	637533.83	4270150.09	9.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000495	637541.97	4270152.30	9.53	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000496	637550.12	4270154.50	9.68	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000497	637558.27	4270156.71	9.88	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000498	637566.30	4270159.20	10.13	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000499	637573.60	4270163.43	10.35	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000500	637580.90	4270167.66	10.57	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000501	637588.21	4270171.89	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000502	637595.51	4270176.12	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000503	637602.81	4270180.35	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000504	637610.12	4270184.58	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000505	637617.22	4270189.05	10.63	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000506	637622.82	4270195.37	10.56	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000507	637628.42	4270201.69	10.50	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000508	637634.01	4270208.00	10.43	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000509	637639.61	4270214.32	10.37	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000510	637645.21	4270220.64	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000511	637650.80	4270226.96	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000512	637656.40	4270233.27	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000513	637662.00	4270239.59	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000514	637667.59	4270245.91	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000515	637673.19	4270252.23	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000516	637678.78	4270258.54	10.34	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000517	637684.38	4270264.86	10.29	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000518	637689.61	4270271.46	10.22	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000519	637694.33	4270278.46	10.16	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000520	637699.06	4270285.45	10.11	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000521	637703.78	4270292.45	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000522	637708.51	4270299.44	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000523	637713.23	4270306.44	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000524	637717.95	4270313.43	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000525	637722.68	4270320.42	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000526	637727.40	4270327.42	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000527	637732.13	4270334.41	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000528	637736.85	4270341.41	10.04	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000529	637741.57	4270348.40	10.02	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000530	637746.30	4270355.39	10.02	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000531	637751.02	4270362.39	10.04	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000532	637755.75	4270369.38	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000533	637760.20	4270376.55	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000534	637764.56	4270383.78	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000535	637768.92	4270391.00	10.05	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000536	637773.28	4270398.23	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000537	637777.63	4270405.46	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000538	637781.99	4270412.69	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000539	637786.35	4270419.91	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000540	637790.71	4270427.14	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000541	637795.07	4270434.37	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000542	637799.43	4270441.59	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000543	637803.79	4270448.82	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000544	637808.15	4270456.05	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000545	637812.51	4270463.28	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000546	637816.87	4270470.50	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000547	637821.23	4270477.73	10.06	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000548	637825.59	4270484.96	10.08	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000549	637829.94	4270492.18	10.18	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000550	637834.30	4270499.41	10.26	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000551	637838.66	4270506.64	10.32	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000552	637843.02	4270513.87	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000553	637847.38	4270521.09	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000554	637851.74	4270528.32	10.36	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000555	637856.10	4270535.55	10.38	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000556	637860.46	4270542.77	10.42	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000557	637864.82	4270550.00	10.51	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000558	637869.18	4270557.23	10.58	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000559	637873.54	4270564.46	10.63	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000560	637877.89	4270571.68	10.66	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000561	637883.22	4270578.23	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000562	637888.60	4270584.73	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000563	637893.98	4270591.23	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000564	637899.35	4270597.74	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000565	637904.73	4270604.24	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000566	637910.11	4270610.75	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000567	637915.49	4270617.25	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000568	637920.87	4270623.76	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000569	637926.25	4270630.26	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000570	637931.62	4270636.76	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000571	637937.00	4270643.27	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000572	637942.38	4270649.77	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000573	637947.76	4270656.28	10.66	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000574	637953.14	4270662.78	10.66	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000575	637958.79	4270668.97	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000576	637965.90	4270673.52	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000577	637973.02	4270678.06	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000578	637980.13	4270682.61	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000579	637987.24	4270687.16	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000580	637994.35	4270691.70	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000581	638001.46	4270696.25	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000582	638008.57	4270700.79	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93
	L0000583	638015.68	4270705.34	10.67	0.00	0.00172	8.44	Surface-Based	3.93	1.93

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0091831	634972.97	4272293.76	7.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091832	634966.89	4272299.61	7.96	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091833	634960.80	4272305.46	7.97	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091834	634954.72	4272311.31	7.95	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091835	634948.64	4272317.16	7.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091836	634942.55	4272323.01	7.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091837	634936.47	4272328.86	7.78	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091838	634930.14	4272334.28	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091839	634921.98	4272336.41	7.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091840	634913.81	4272338.54	7.69	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091841	634905.64	4272340.67	7.75	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091842	634897.48	4272342.80	7.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091843	634889.41	4272345.22	7.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091844	634881.63	4272348.50	7.89	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0091845	634873.85	4272351.77	7.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091846	634866.07	4272355.05	7.82	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091847	634858.31	4272358.35	7.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091848	634851.02	4272362.60	7.78	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091849	634843.73	4272366.86	7.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091850	634836.44	4272371.11	7.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091851	634829.15	4272375.36	7.85	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091852	634821.86	4272379.61	7.74	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091853	634814.21	4272382.85	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091854	634805.86	4272384.13	7.72	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091855	634797.52	4272385.42	7.78	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091856	634789.18	4272386.70	7.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091857	634780.84	4272387.98	7.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091858	634772.50	4272389.27	7.78	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091859	634764.16	4272390.55	7.77	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091860	634755.81	4272391.83	7.75	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091861	634747.46	4272392.52	7.75	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091862	634739.08	4272391.54	7.76	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091863	634730.70	4272390.56	7.77	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091864	634722.31	4272389.57	7.78	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091865	634713.93	4272388.59	7.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091866	634705.55	4272387.61	7.80	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091867	634697.16	4272386.63	7.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091868	634688.78	4272385.65	7.82	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091869	634680.40	4272384.67	7.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0091870	634672.02	4272383.68	7.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091871	634663.63	4272382.70	7.85	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091872	634655.25	4272381.72	7.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091873	634646.87	4272380.74	7.87	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091874	634638.49	4272379.76	7.85	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091875	634630.10	4272378.78	7.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091876	634621.72	4272377.79	7.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091877	634613.34	4272376.81	7.85	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091878	634604.95	4272375.83	7.88	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091879	634596.57	4272374.85	7.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091880	634588.19	4272373.87	7.94	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091881	634579.81	4272372.88	7.95	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091882	634571.42	4272371.90	7.96	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091883	634563.04	4272370.92	7.97	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091884	634554.87	4272369.11	7.98	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091885	634547.03	4272365.99	8.02	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091886	634539.19	4272362.86	8.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091887	634531.35	4272359.73	8.08	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091888	634523.51	4272356.61	8.11	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091889	634515.67	4272353.48	8.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091890	634507.83	4272350.35	8.17	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091891	634499.99	4272347.23	8.21	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091892	634492.15	4272344.10	8.21	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091893	634484.31	4272340.97	8.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091894	634476.47	4272337.85	8.09	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0091895	634468.63	4272334.72	8.06	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091896	634460.79	4272331.59	8.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091897	634452.95	4272328.46	8.03	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091898	634445.12	4272325.34	8.00	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091899	634437.28	4272322.21	7.95	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091900	634429.44	4272319.08	7.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091901	634421.60	4272315.96	7.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091902	634413.76	4272312.83	7.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091903	634405.92	4272309.70	7.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091904	634398.08	4272306.58	7.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091905	634390.24	4272303.45	7.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091906	634382.40	4272300.32	7.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091907	634374.56	4272297.20	7.63	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091908	634366.72	4272294.07	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091909	634358.88	4272290.94	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091910	634351.04	4272287.82	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091911	634343.20	4272284.69	7.64	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091912	634335.36	4272281.56	7.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091913	634327.52	4272278.44	7.95	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091914	634319.68	4272275.31	8.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091915	634311.84	4272272.18	8.09	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091916	634304.01	4272269.06	8.02	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091917	634296.17	4272265.93	7.97	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091918	634288.33	4272262.80	7.94	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091919	634280.49	4272259.68	7.91	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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SLINE4	L0091920	634272.65	4272256.55	7.91	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091921	634264.81	4272253.42	7.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091922	634257.01	4272250.21	7.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091923	634249.32	4272246.73	7.89	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091924	634241.63	4272243.25	7.85	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091925	634233.94	4272239.77	7.82	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091926	634226.25	4272236.30	7.82	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091927	634218.55	4272232.82	7.80	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091928	634210.86	4272229.34	7.77	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091929	634203.17	4272225.86	7.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091930	634195.48	4272222.39	7.66	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091931	634187.79	4272218.91	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091932	634180.10	4272215.43	7.72	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091933	634172.41	4272211.96	7.75	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091934	634164.72	4272208.48	7.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091935	634157.03	4272205.00	7.87	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091936	634149.34	4272201.52	7.97	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091937	634141.65	4272198.05	8.10	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091938	634133.96	4272194.57	8.23	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091939	634126.27	4272191.09	8.23	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091940	634118.58	4272187.61	8.23	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091941	634110.89	4272184.14	8.23	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091942	634103.20	4272180.66	8.23	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091943	634095.51	4272177.18	8.19	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091944	634087.82	4272173.70	8.18	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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SLINE4	L0091945	634080.13	4272170.23	8.19	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091946	634072.44	4272166.75	8.20	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091947	634064.75	4272163.27	8.17	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091948	634057.14	4272159.63	8.20	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091949	634049.63	4272155.77	8.24	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091950	634042.13	4272151.90	8.31	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091951	634034.63	4272148.04	8.40	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091952	634027.12	4272144.17	8.51	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091953	634019.62	4272140.31	8.63	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091954	634012.12	4272136.44	8.76	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091955	634004.62	4272132.58	8.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091956	633997.86	4272127.56	9.06	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091957	633991.27	4272122.28	9.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091958	633984.68	4272117.01	9.63	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091959	633978.09	4272111.74	9.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091960	633971.50	4272106.47	10.02	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091961	633964.91	4272101.19	10.01	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091962	633958.94	4272095.39	10.00	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091963	633954.66	4272088.11	10.10	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091964	633950.38	4272080.84	10.16	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091965	633946.10	4272073.56	10.19	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091966	633942.36	4272066.07	10.12	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091967	633940.44	4272057.85	10.13	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091968	633938.51	4272049.64	10.20	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091969	633936.59	4272041.42	10.16	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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SLINE4	L0091970	633934.67	4272033.20	9.94	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091971	633932.74	4272024.98	9.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091972	633930.82	4272016.76	9.54	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091973	633928.90	4272008.55	9.20	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091974	633926.97	4272000.33	8.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091975	633925.05	4271992.11	8.34	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091976	633921.62	4271984.78	7.89	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091977	633915.36	4271979.12	7.50	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091978	633909.10	4271973.46	7.13	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091979	633902.84	4271967.79	6.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091980	633896.58	4271962.13	6.47	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091981	633890.32	4271956.47	6.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091982	633883.13	4271952.38	6.52	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091983	633875.17	4271949.57	6.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091984	633867.21	4271946.76	7.04	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091985	633859.25	4271943.95	7.19	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091986	633850.95	4271942.56	7.33	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091987	633842.59	4271941.41	7.47	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091988	633834.23	4271940.26	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091989	633825.87	4271939.10	7.64	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091990	633817.51	4271937.95	7.65	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091991	633809.15	4271936.80	7.66	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091992	633802.28	4271932.12	7.53	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091993	633795.64	4271926.91	7.37	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091994	633789.01	4271921.69	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32

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SLINE4	L0091995	633783.19	4271915.88	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091996	633780.24	4271907.97	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091997	633777.29	4271900.07	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091998	633774.33	4271892.16	7.29	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0091999	633771.38	4271884.25	7.19	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092000	633768.43	4271876.35	7.10	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092001	633765.48	4271868.44	7.04	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092002	633762.53	4271860.53	6.98	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092003	633759.58	4271852.62	6.95	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092004	633756.63	4271844.72	6.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092005	633753.68	4271836.81	6.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092006	633750.72	4271828.90	6.94	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092007	633747.77	4271821.00	6.97	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092008	633744.82	4271813.09	7.00	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092009	633741.87	4271805.18	7.01	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092010	633738.92	4271797.27	7.10	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092011	633735.97	4271789.37	7.21	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092012	633733.02	4271781.46	7.34	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092013	633730.07	4271773.55	7.47	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092014	633727.11	4271765.65	7.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092015	633724.16	4271757.74	7.75	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092016	633721.21	4271749.83	7.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092017	633718.26	4271741.92	8.17	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092018	633715.31	4271734.02	8.50	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092019	633712.36	4271726.11	8.80	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092020	633709.41	4271718.20	9.07	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092021	633706.46	4271710.30	9.44	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092022	633703.50	4271702.39	9.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092023	633700.55	4271694.48	10.23	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092024	633697.60	4271686.57	10.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092025	633694.65	4271678.67	10.44	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092026	633691.77	4271670.73	10.13	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092027	633689.19	4271662.70	9.80	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092028	633686.61	4271654.66	9.46	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092029	633684.03	4271646.63	9.11	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092030	633681.45	4271638.59	8.77	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092031	633678.87	4271630.55	8.42	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092032	633676.29	4271622.52	8.11	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092033	633673.71	4271614.48	7.95	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092034	633671.13	4271606.45	7.80	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092035	633668.56	4271598.41	7.67	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092036	633665.98	4271590.37	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092037	633663.40	4271582.34	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092038	633660.82	4271574.30	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092039	633658.24	4271566.26	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092040	633655.66	4271558.23	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092041	633653.08	4271550.19	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092042	633650.50	4271542.16	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092043	633647.92	4271534.12	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092044	633645.34	4271526.08	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092045	633642.76	4271518.05	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092046	633640.18	4271510.01	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092047	633637.60	4271501.98	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092048	633635.02	4271493.94	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092049	633632.44	4271485.90	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092050	633629.86	4271477.87	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092051	633627.28	4271469.83	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092052	633624.70	4271461.79	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092053	633622.12	4271453.76	7.61	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092054	633619.54	4271445.72	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092055	633616.96	4271437.69	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092056	633614.38	4271429.65	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092057	633611.80	4271421.61	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092058	633609.23	4271413.58	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092059	633606.65	4271405.54	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092060	633604.07	4271397.51	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092061	633601.49	4271389.47	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092062	633598.91	4271381.43	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092063	633596.33	4271373.40	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092064	633593.75	4271365.36	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092065	633591.17	4271357.33	7.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092066	633588.59	4271349.29	7.57	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092067	633586.01	4271341.25	7.54	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092068	633583.43	4271333.22	7.51	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092069	633580.85	4271325.18	7.49	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092070	633578.27	4271317.14	7.46	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092071	633575.69	4271309.11	7.43	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092072	633573.11	4271301.07	7.41	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092073	633570.53	4271293.04	7.38	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092074	633567.95	4271285.00	7.36	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092075	633565.37	4271276.96	7.33	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092076	633562.79	4271268.93	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092077	633560.21	4271260.89	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092078	633557.63	4271252.86	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092079	633555.05	4271244.82	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092080	633552.47	4271236.78	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092081	633549.90	4271228.75	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092082	633547.32	4271220.71	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092083	633544.74	4271212.67	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092084	633552.54	4271209.76	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092085	633560.48	4271206.91	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092086	633568.43	4271204.06	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092087	633576.37	4271201.22	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092088	633584.32	4271198.37	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092089	633592.26	4271195.52	7.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092090	633600.21	4271192.67	7.38	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092091	633608.15	4271189.83	7.46	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092092	633616.10	4271186.98	7.54	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092093	633624.04	4271184.13	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092094	633631.99	4271181.29	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092095	633639.93	4271178.44	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092096	633647.88	4271175.59	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092097	633655.83	4271172.74	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092098	633663.77	4271169.90	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092099	633671.72	4271167.05	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092100	633679.66	4271164.20	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092101	633687.61	4271161.36	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092102	633695.55	4271158.51	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092103	633703.50	4271155.66	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092104	633711.44	4271152.82	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092105	633719.39	4271149.97	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092106	633723.17	4271156.24	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092107	633726.22	4271164.11	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092108	633729.27	4271171.98	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092109	633732.33	4271179.85	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092110	633735.38	4271187.72	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092111	633738.43	4271195.59	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092112	633741.48	4271203.45	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092113	633744.54	4271211.32	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092114	633747.59	4271219.19	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092115	633750.64	4271227.06	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092116	633753.69	4271234.93	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092117	633756.75	4271242.80	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092118	633759.80	4271250.67	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092119	633762.85	4271258.54	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092120	633765.90	4271266.40	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092121	633768.96	4271274.27	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092122	633772.01	4271282.14	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092123	633775.06	4271290.01	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092124	633778.11	4271297.88	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092125	633781.17	4271305.75	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092126	633784.22	4271313.62	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092127	633787.27	4271321.48	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092128	633790.32	4271329.35	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092129	633793.38	4271337.22	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092130	633796.43	4271345.09	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092131	633799.48	4271352.96	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092132	633802.53	4271360.83	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092133	633805.59	4271368.70	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092134	633808.64	4271376.57	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092135	633811.69	4271384.43	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092136	633814.74	4271392.30	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092137	633817.80	4271400.17	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092138	633820.85	4271408.04	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092139	633823.90	4271415.91	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092140	633826.95	4271423.78	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092141	633830.01	4271431.65	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092142	633833.06	4271439.51	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092143	633836.11	4271447.38	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092144	633839.16	4271455.25	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092145	633842.22	4271463.12	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092146	633845.27	4271470.99	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092147	633849.23	4271478.31	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092148	633854.73	4271484.72	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092149	633860.22	4271491.13	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092150	633865.71	4271497.54	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092151	633871.20	4271503.94	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092152	633876.70	4271510.35	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092153	633882.19	4271516.76	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092154	633887.68	4271523.17	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092155	633893.17	4271529.58	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092156	633898.67	4271535.99	7.61	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092157	633904.16	4271542.39	7.57	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092158	633909.65	4271548.80	7.55	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092159	633915.14	4271555.21	7.56	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092160	633920.64	4271561.62	7.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092161	633926.13	4271568.03	7.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092162	633931.62	4271574.43	7.50	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092163	633937.12	4271580.84	7.39	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092164	633942.61	4271587.25	7.25	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092165	633948.10	4271593.66	7.09	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092166	633953.59	4271600.07	7.01	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092167	633959.09	4271606.47	6.96	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092168	633964.58	4271612.88	6.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092169	633970.73	4271618.65	6.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092170	633976.99	4271624.31	6.78	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092171	633983.25	4271629.97	6.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092172	633989.52	4271635.63	6.65	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092173	633995.78	4271641.29	6.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092174	634002.04	4271646.94	6.52	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092175	634008.30	4271652.60	6.46	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092176	634014.56	4271658.26	6.40	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092177	634020.82	4271663.92	6.40	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092178	634027.08	4271669.58	6.40	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092179	634033.35	4271675.24	6.40	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092180	634039.61	4271680.90	6.40	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092181	634045.87	4271686.56	6.44	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092182	634052.13	4271692.22	6.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092183	634058.39	4271697.88	6.74	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092184	634064.65	4271703.54	6.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092185	634070.91	4271709.20	7.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092186	634077.18	4271714.86	7.35	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092187	634083.44	4271720.52	7.45	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092188	634089.70	4271726.18	7.53	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092189	634095.96	4271731.83	7.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092190	634102.22	4271737.49	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092191	634108.48	4271743.15	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092192	634115.56	4271747.46	7.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092193	634123.48	4271750.39	7.60	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092194	634131.40	4271753.31	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092195	634139.31	4271756.23	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092196	634147.23	4271759.16	7.76	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092197	634155.15	4271762.08	7.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092198	634163.07	4271765.00	7.82	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092199	634170.98	4271767.93	7.78	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092200	634178.90	4271770.85	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092201	634186.82	4271773.77	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092202	634194.74	4271776.70	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092203	634202.65	4271779.62	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092204	634210.57	4271782.54	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092205	634218.49	4271785.47	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092206	634226.41	4271788.39	7.57	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092207	634234.32	4271791.31	7.41	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092208	634242.24	4271794.24	7.25	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092209	634250.16	4271797.16	7.09	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092210	634258.08	4271800.09	6.97	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092211	634265.99	4271803.01	6.89	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092212	634273.91	4271805.93	6.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092213	634281.83	4271808.86	6.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092214	634289.75	4271811.78	6.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092215	634297.82	4271814.15	6.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092216	634306.12	4271815.68	6.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092217	634314.42	4271817.21	6.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092218	634322.72	4271818.74	6.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092219	634331.02	4271820.27	6.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092220	634339.32	4271821.80	6.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092221	634347.62	4271823.33	6.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092222	634355.92	4271824.85	6.79	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092223	634364.22	4271826.38	6.85	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092224	634372.52	4271827.91	6.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092225	634380.82	4271829.44	7.09	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092226	634389.12	4271830.97	7.28	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092227	634397.42	4271832.50	7.46	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092228	634405.72	4271834.03	7.61	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092229	634414.02	4271835.56	7.61	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092230	634422.32	4271837.09	7.60	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092231	634430.62	4271838.62	7.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092232	634438.92	4271840.15	7.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092233	634447.22	4271841.67	7.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092234	634455.52	4271843.20	7.60	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092235	634463.82	4271844.73	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092236	634472.12	4271846.26	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092237	634480.42	4271847.79	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092238	634488.72	4271849.32	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092239	634497.02	4271850.85	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092240	634505.32	4271852.38	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092241	634513.65	4271853.75	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092242	634521.99	4271855.04	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092243	634530.33	4271856.33	7.67	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092244	634538.67	4271857.61	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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SLINE4	L0092245	634547.02	4271858.90	7.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092246	634555.36	4271860.19	7.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092247	634563.70	4271861.48	7.80	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092248	634572.04	4271862.76	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092249	634580.38	4271864.05	7.66	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092250	634588.72	4271865.34	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092251	634597.06	4271866.63	7.64	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092252	634605.40	4271867.91	7.65	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092253	634613.75	4271869.20	7.66	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092254	634622.09	4271870.49	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092255	634630.43	4271871.77	7.69	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092256	634638.77	4271873.06	7.70	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092257	634647.11	4271874.35	7.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092258	634655.45	4271875.64	7.69	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092259	634663.79	4271876.92	7.66	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092260	634672.13	4271878.21	7.63	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092261	634680.48	4271879.50	7.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092262	634688.82	4271880.79	7.55	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092263	634697.16	4271882.07	7.52	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092264	634705.50	4271883.36	7.50	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092265	634713.84	4271884.65	7.52	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092266	634722.18	4271885.93	7.53	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092267	634730.52	4271887.22	7.54	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092268	634738.86	4271888.51	7.55	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092269	634747.21	4271889.80	7.57	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092270	634755.55	4271891.08	7.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092271	634763.89	4271892.37	7.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092272	634772.23	4271893.66	7.53	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092273	634780.57	4271894.94	7.45	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092274	634788.91	4271896.23	7.38	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092275	634797.25	4271897.52	7.37	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092276	634805.59	4271898.81	7.46	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092277	634813.94	4271900.09	7.54	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092278	634822.28	4271901.38	7.61	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092279	634830.62	4271902.67	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092280	634838.96	4271903.96	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092281	634847.30	4271905.24	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092282	634855.64	4271906.53	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092283	634863.98	4271907.82	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092284	634872.32	4271909.10	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092285	634880.67	4271910.39	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092286	634889.01	4271911.68	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092287	634897.35	4271912.97	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092288	634905.69	4271914.25	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092289	634914.03	4271915.54	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092290	634922.37	4271916.83	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092291	634930.71	4271918.11	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092292	634939.05	4271919.40	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092293	634947.40	4271920.69	7.64	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092294	634955.74	4271921.98	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092295	634964.08	4271923.26	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092296	634972.06	4271925.99	7.65	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092297	634980.05	4271928.73	7.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092298	634988.03	4271931.48	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092299	634996.01	4271934.22	7.70	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092300	635003.99	4271936.97	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092301	635011.97	4271939.71	7.74	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092302	635019.95	4271942.45	7.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092303	635027.93	4271945.20	8.11	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092304	635035.92	4271947.94	8.36	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092305	635043.90	4271950.68	8.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092306	635051.88	4271953.43	8.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092307	635058.91	4271957.92	9.06	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092308	635065.54	4271963.14	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092309	635072.18	4271968.35	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092310	635078.82	4271973.57	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092311	635085.45	4271978.78	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092312	635092.09	4271983.99	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092313	635098.73	4271989.21	9.22	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092314	635105.36	4271994.42	9.26	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092315	635112.00	4271999.64	9.26	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092316	635118.64	4272004.85	9.22	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092317	635125.27	4272010.07	9.13	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092318	635131.91	4272015.28	9.06	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092319	635138.55	4272020.50	8.94	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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SLINE4	L0092320	635145.18	4272025.71	8.82	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092321	635151.82	4272030.92	8.70	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092322	635158.46	4272036.14	8.59	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092323	635165.09	4272041.35	8.47	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092324	635171.73	4272046.57	8.34	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092325	635176.73	4272053.33	8.22	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092326	635181.55	4272060.25	8.10	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092327	635186.37	4272067.18	7.98	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092328	635191.20	4272074.11	7.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092329	635196.02	4272081.03	7.39	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092330	635200.84	4272087.96	6.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092331	635205.67	4272094.88	5.45	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092332	635210.49	4272101.81	4.00	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092333	635215.31	4272108.74	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092334	635220.14	4272115.66	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092335	635224.96	4272122.59	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092336	635229.78	4272129.51	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092337	635234.61	4272136.44	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092338	635238.97	4272143.62	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092339	635242.13	4272151.44	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092340	635245.29	4272159.27	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092341	635248.45	4272167.09	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092342	635251.61	4272174.92	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092343	635254.77	4272182.75	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092344	635257.93	4272190.57	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092345	635261.09	4272198.40	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092346	635264.25	4272206.22	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092347	635267.41	4272214.05	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092348	635270.14	4272222.02	3.05	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092349	635272.48	4272230.13	3.30	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092350	635274.81	4272238.25	3.76	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092351	635277.15	4272246.36	4.21	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092352	635279.48	4272254.47	4.61	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092353	635281.82	4272262.58	4.91	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092354	635284.15	4272270.69	5.21	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092355	635286.49	4272278.80	5.53	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092356	635288.82	4272286.91	5.87	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092357	635291.15	4272295.02	6.25	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092358	635293.49	4272303.13	6.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092359	635295.82	4272311.24	7.00	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092360	635298.16	4272319.35	7.30	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092361	635300.49	4272327.46	7.51	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092362	635302.83	4272335.57	7.72	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092363	635305.16	4272343.68	7.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092364	635307.50	4272351.79	8.06	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092365	635309.83	4272359.91	8.17	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092366	635312.17	4272368.02	8.26	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092367	635314.50	4272376.13	8.37	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092368	635316.84	4272384.24	8.60	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092369	635319.17	4272392.35	8.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092370	635321.50	4272400.46	9.03	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092371	635323.84	4272408.57	9.16	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092372	635326.17	4272416.68	9.18	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092373	635328.51	4272424.79	9.18	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092374	635330.84	4272432.90	9.17	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092375	635333.18	4272441.01	9.15	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092376	635335.51	4272449.12	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092377	635337.85	4272457.23	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092378	635340.18	4272465.34	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092379	635342.52	4272473.46	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092380	635344.85	4272481.57	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092381	635347.18	4272489.68	9.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092382	635349.52	4272497.79	9.13	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092383	635351.85	4272505.90	9.08	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092384	635354.19	4272514.01	9.01	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092385	635356.52	4272522.12	8.94	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092386	635358.86	4272530.23	8.88	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092387	635361.19	4272538.34	8.85	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092388	635363.53	4272546.45	8.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092389	635365.86	4272554.56	8.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092390	635368.20	4272562.67	8.60	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092391	635370.53	4272570.78	8.36	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092392	635372.87	4272578.89	8.11	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092393	635375.20	4272587.00	7.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092394	635377.53	4272595.12	7.82	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092395	635379.87	4272603.23	7.74	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092396	635382.20	4272611.34	7.66	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092397	635384.54	4272619.45	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092398	635386.87	4272627.56	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092399	635389.21	4272635.67	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092400	635391.54	4272643.78	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092401	635393.88	4272651.89	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092402	635396.21	4272660.00	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092403	635398.55	4272668.11	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092404	635400.88	4272676.22	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092405	635403.21	4272684.33	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092406	635405.55	4272692.44	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092407	635407.88	4272700.55	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092408	635410.22	4272708.67	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092409	635412.55	4272716.78	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092410	635414.89	4272724.89	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092411	635417.22	4272733.00	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092412	635419.56	4272741.11	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092413	635421.89	4272749.22	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092414	635424.23	4272757.33	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092415	635426.56	4272765.44	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092416	635428.90	4272773.55	7.63	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092417	635431.23	4272781.66	7.66	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092418	635433.56	4272789.77	7.70	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092419	635435.90	4272797.88	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092420	635438.23	4272805.99	7.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092421	635440.57	4272814.10	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092422	635442.90	4272822.22	7.64	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092423	635445.24	4272830.33	7.66	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092424	635447.57	4272838.44	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092425	635449.91	4272846.55	7.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092426	635452.24	4272854.66	7.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092427	635454.58	4272862.77	7.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092428	635456.91	4272870.88	7.87	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092429	635459.24	4272878.99	7.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092430	635461.58	4272887.10	7.97	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092431	635463.91	4272895.21	7.92	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092432	635466.25	4272903.32	7.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092433	635468.58	4272911.43	7.70	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092434	635470.92	4272919.54	7.87	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092435	635473.25	4272927.65	8.31	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092436	635475.59	4272935.76	8.75	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092437	635477.92	4272943.88	9.21	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092438	635480.26	4272951.99	9.48	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092439	635482.59	4272960.10	9.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092440	635484.93	4272968.21	9.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092441	635487.26	4272976.32	9.98	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092442	635489.59	4272984.43	9.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092443	635491.93	4272992.54	9.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092444	635494.26	4273000.65	9.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092445	635496.60	4273008.76	9.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092446	635498.93	4273016.87	9.72	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092447	635501.27	4273024.98	9.61	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092448	635503.60	4273033.09	9.48	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092449	635505.94	4273041.20	9.43	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092450	635508.27	4273049.31	9.42	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092451	635510.61	4273057.43	9.42	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092452	635512.94	4273065.54	9.43	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092453	635515.27	4273073.65	9.35	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092454	635517.61	4273081.76	9.24	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092455	635519.94	4273089.87	9.13	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092456	635522.28	4273097.98	9.00	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092457	635524.61	4273106.09	8.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092458	635526.95	4273114.20	8.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092459	635529.28	4273122.31	8.43	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092460	635531.62	4273130.42	8.32	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092461	635533.95	4273138.53	8.24	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092462	635536.29	4273146.64	8.14	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092463	635538.62	4273154.75	8.04	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092464	635540.96	4273162.86	7.97	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092465	635543.29	4273170.97	7.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092466	635545.62	4273179.09	7.91	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092467	635547.96	4273187.20	7.88	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092468	635550.29	4273195.31	7.86	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092469	635551.89	4273203.52	7.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092470	635551.86	4273211.96	7.84	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092471	635551.83	4273220.40	7.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092472	635551.80	4273228.84	7.99	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092473	635551.77	4273237.28	8.07	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092474	635551.74	4273245.72	8.15	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092475	635551.71	4273254.16	8.20	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092476	635551.69	4273262.60	8.24	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092477	635551.66	4273271.04	8.29	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092478	635551.63	4273279.48	8.34	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092479	635551.60	4273287.92	8.41	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092480	635551.57	4273296.36	8.47	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092481	635548.55	4273303.60	8.52	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092482	635542.76	4273309.75	8.58	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092483	635536.97	4273315.89	8.65	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092484	635531.18	4273322.03	8.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092485	635525.39	4273328.17	8.77	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092486	635519.60	4273334.31	8.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092487	635513.81	4273340.45	8.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092488	635508.02	4273346.60	8.96	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092489	635500.39	4273345.91	8.95	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092490	635492.29	4273343.52	8.93	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092491	635484.20	4273341.13	8.90	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092492	635476.10	4273338.73	8.88	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092493	635468.01	4273336.34	8.85	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092494	635459.92	4273333.95	8.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE4	L0092495	635453.65	4273329.29	8.78	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092496	635449.58	4273321.90	8.71	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092497	635445.50	4273314.50	8.63	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092498	635441.43	4273307.11	8.56	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092499	635439.42	4273299.17	8.42	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092500	635439.30	4273290.73	8.25	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092501	635439.17	4273282.29	8.07	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092502	635439.04	4273273.86	7.91	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092503	635438.92	4273265.42	7.83	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092504	635441.65	4273258.19	7.75	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092505	635447.81	4273252.42	7.70	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092506	635453.97	4273246.65	7.64	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092507	635460.12	4273240.87	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092508	635466.28	4273235.10	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092509	635472.44	4273229.33	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092510	635479.28	4273224.56	7.62	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092511	635486.91	4273220.96	7.63	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092512	635494.54	4273217.36	7.63	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092513	635502.18	4273213.75	7.64	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092514	635509.81	4273210.15	7.68	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092515	635517.44	4273206.55	7.73	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092516	635525.07	4273202.94	7.81	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092517	635532.71	4273199.34	7.87	0.00	0.00145	8.44	Surface-Based	3.93	3.32
	L0092518	635540.34	4273195.74	7.91	0.00	0.00145	8.44	Surface-Based	3.93	3.32

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092519	635560.67	4273190.75	7.76	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092520	635567.74	4273188.27	7.68	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092521	635574.82	4273185.79	7.62	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092522	635581.90	4273183.31	7.63	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092523	635588.98	4273180.83	7.64	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092524	635596.06	4273178.35	7.64	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092525	635603.13	4273175.87	7.62	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092526	635610.21	4273173.39	7.71	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092527	635617.29	4273170.91	7.82	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092528	635624.37	4273168.43	7.94	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092529	635631.45	4273165.95	8.08	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092530	635638.53	4273163.50	8.23	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092531	635645.65	4273161.14	8.40	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092532	635652.77	4273158.78	8.57	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092533	635659.89	4273156.42	8.74	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092534	635667.01	4273154.06	8.86	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092535	635674.13	4273151.70	8.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092536	635681.25	4273149.34	8.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092537	635688.37	4273146.98	9.07	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092538	635695.49	4273144.62	9.15	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092539	635702.61	4273142.27	9.18	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092540	635709.73	4273139.91	9.22	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092541	635716.85	4273137.55	9.28	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092542	635723.97	4273135.19	9.34	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092543	635731.08	4273132.83	9.22	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092544	635738.20	4273130.47	9.10	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092545	635745.32	4273128.11	8.98	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092546	635752.45	4273125.77	8.86	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092547	635759.63	4273123.60	8.63	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092548	635766.81	4273121.43	8.39	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092549	635773.99	4273119.26	8.17	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092550	635781.17	4273117.09	7.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092551	635788.35	4273114.92	7.91	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092552	635795.52	4273112.75	7.88	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092553	635802.70	4273110.58	7.83	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092554	635809.88	4273108.41	7.78	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092555	635817.06	4273106.25	7.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092556	635824.24	4273104.08	7.79	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092557	635831.42	4273101.91	7.83	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092558	635838.60	4273099.74	7.88	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092559	635845.78	4273097.57	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092560	635852.96	4273095.40	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092561	635860.14	4273093.23	7.91	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092562	635867.32	4273091.06	7.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092563	635874.50	4273088.89	7.86	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092564	635881.68	4273086.72	7.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092565	635888.86	4273084.55	7.82	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092566	635896.04	4273082.38	7.80	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092567	635903.42	4273081.27	7.79	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092568	635910.89	4273080.69	7.81	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092569	635918.37	4273080.10	7.85	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092570	635925.85	4273079.51	7.88	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092571	635933.32	4273078.93	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092572	635940.80	4273078.34	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092573	635948.28	4273077.76	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092574	635955.75	4273077.17	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092575	635963.23	4273076.58	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092576	635970.71	4273076.00	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092577	635978.19	4273075.41	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092578	635985.66	4273074.82	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092579	635993.14	4273074.24	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092580	636000.62	4273073.65	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092581	636008.09	4273073.06	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092582	636015.57	4273072.48	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092583	636023.05	4273071.89	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092584	636030.52	4273071.30	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092585	636038.00	4273070.72	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092586	636045.48	4273070.13	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092587	636052.96	4273069.55	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092588	636060.43	4273068.96	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092589	636067.91	4273068.37	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092590	636075.39	4273067.79	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092591	636082.86	4273067.20	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092592	636090.34	4273066.61	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092593	636097.82	4273066.03	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092594	636105.30	4273065.44	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092595	636112.77	4273064.85	7.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092596	636120.25	4273064.27	7.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092597	636127.73	4273063.68	8.06	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092598	636135.20	4273063.09	8.13	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092599	636142.68	4273062.51	8.19	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092600	636150.16	4273061.92	8.21	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092601	636157.63	4273061.34	8.21	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092602	636165.11	4273060.75	8.22	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092603	636172.59	4273060.16	8.23	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092604	636180.07	4273059.58	8.29	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092605	636187.54	4273058.99	8.37	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092606	636195.02	4273058.40	8.44	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092607	636202.50	4273057.82	8.52	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092608	636209.97	4273057.23	8.55	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092609	636217.45	4273056.64	8.57	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092610	636224.93	4273056.06	8.60	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092611	636232.40	4273055.47	8.63	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092612	636239.88	4273054.88	8.68	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092613	636247.36	4273054.30	8.73	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092614	636254.84	4273053.71	8.78	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092615	636262.31	4273053.13	8.83	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092616	636269.80	4273052.62	8.86	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092617	636277.28	4273052.15	8.90	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092618	636284.77	4273051.68	8.93	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092619	636292.25	4273051.21	8.97	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092620	636299.74	4273050.73	8.98	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092621	636307.22	4273050.26	8.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092622	636314.71	4273049.79	8.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092623	636322.19	4273049.32	9.00	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092624	636329.68	4273048.85	9.00	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092625	636337.16	4273048.38	9.01	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092626	636344.65	4273047.90	9.01	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092627	636352.13	4273047.43	9.02	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092628	636359.62	4273046.96	8.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092629	636367.10	4273046.49	8.94	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092630	636374.59	4273046.02	8.90	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092631	636382.07	4273045.55	8.85	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092632	636389.56	4273045.07	8.90	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092633	636397.04	4273044.60	8.97	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092634	636404.53	4273044.13	9.05	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092635	636412.01	4273043.66	9.12	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092636	636419.50	4273043.19	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092637	636426.98	4273042.71	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092638	636434.47	4273042.24	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092639	636441.95	4273041.77	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092640	636449.44	4273041.30	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092641	636456.92	4273040.83	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092642	636464.41	4273040.36	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092643	636471.89	4273039.88	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092644	636479.38	4273039.41	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092645	636486.87	4273038.94	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092646	636494.35	4273038.47	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092647	636501.84	4273038.00	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092648	636509.32	4273037.53	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092649	636516.81	4273037.05	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092650	636524.29	4273036.58	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092651	636531.78	4273036.11	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092652	636539.26	4273035.64	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092653	636546.75	4273035.17	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092654	636554.23	4273034.70	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092655	636561.72	4273034.22	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092656	636569.20	4273033.75	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092657	636576.69	4273033.28	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092658	636584.17	4273032.81	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092659	636591.66	4273032.34	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092660	636599.14	4273031.86	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092661	636606.63	4273031.39	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092662	636614.11	4273030.92	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092663	636621.60	4273030.45	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092664	636629.08	4273029.98	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092665	636636.57	4273029.51	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092666	636644.05	4273029.03	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092667	636651.54	4273028.56	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092668	636659.02	4273028.09	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092669	636666.51	4273027.62	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092670	636673.99	4273027.15	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092671	636681.48	4273026.68	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092672	636688.96	4273026.20	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092673	636696.45	4273025.73	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092674	636703.93	4273025.26	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092675	636711.42	4273024.79	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092676	636718.90	4273024.32	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092677	636726.39	4273023.84	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092678	636733.88	4273023.37	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092679	636741.36	4273022.90	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092680	636748.85	4273022.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092681	636756.33	4273021.96	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092682	636763.82	4273021.49	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092683	636771.30	4273021.01	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092684	636778.79	4273020.54	9.12	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092685	636786.27	4273020.07	9.08	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092686	636793.76	4273019.60	9.04	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092687	636801.24	4273019.13	9.00	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092688	636808.73	4273018.66	8.96	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092689	636816.21	4273018.18	8.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092690	636823.70	4273017.71	8.88	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092691	636831.18	4273017.24	8.85	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092692	636838.64	4273017.72	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092693	636846.07	4273018.68	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092694	636853.51	4273019.65	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092695	636860.95	4273020.61	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092696	636868.39	4273021.58	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092697	636875.82	4273022.54	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092698	636883.26	4273023.51	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092699	636890.70	4273024.47	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092700	636898.14	4273025.43	8.85	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092701	636905.58	4273026.40	8.87	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092702	636913.01	4273027.36	8.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092703	636920.45	4273028.33	8.90	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092704	636927.89	4273029.29	8.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092705	636935.33	4273030.26	8.87	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092706	636942.76	4273031.22	8.85	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092707	636950.20	4273032.19	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092708	636957.64	4273033.15	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092709	636965.08	4273034.12	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092710	636972.51	4273035.08	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092711	636979.95	4273036.04	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092712	636987.39	4273037.01	8.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092713	636994.83	4273037.97	8.85	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092714	637002.27	4273038.94	8.86	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092715	637009.70	4273039.90	8.88	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092716	637017.14	4273040.87	8.90	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092717	637024.58	4273041.83	8.91	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092718	637032.02	4273042.80	8.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092719	637039.45	4273043.76	8.93	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092720	637046.89	4273044.73	8.94	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092721	637054.33	4273045.69	8.95	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092722	637061.77	4273046.65	8.96	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092723	637069.21	4273047.62	8.97	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092724	637076.64	4273048.58	8.98	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092725	637084.08	4273049.55	8.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092726	637091.52	4273050.51	9.00	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092727	637098.96	4273051.48	9.01	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092728	637106.39	4273052.44	9.03	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092729	637113.83	4273053.41	9.07	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092730	637121.27	4273054.37	9.10	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092731	637128.71	4273055.33	9.13	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092732	637136.14	4273056.30	9.24	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092733	637143.58	4273057.26	9.58	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092734	637151.02	4273058.23	9.91	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092735	637158.46	4273059.19	10.23	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092736	637165.90	4273060.16	10.53	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092737	637173.33	4273061.12	10.77	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092738	637180.77	4273062.09	11.00	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092739	637188.21	4273063.05	11.20	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092740	637195.65	4273064.02	11.32	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092741	637203.08	4273064.98	11.18	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092742	637210.52	4273065.94	11.09	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092743	637217.96	4273066.91	11.01	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092744	637225.40	4273067.87	10.97	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092745	637232.84	4273068.84	11.12	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092746	637240.27	4273069.80	11.28	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092747	637247.71	4273070.77	11.44	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092748	637255.15	4273071.73	11.63	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092749	637262.59	4273072.70	11.93	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092750	637270.02	4273073.66	12.21	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092751	637277.46	4273074.63	12.47	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092752	637284.90	4273075.59	12.66	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092753	637292.34	4273076.55	12.56	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092754	637299.77	4273077.52	12.48	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092755	637307.21	4273078.48	12.40	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092756	637314.65	4273079.45	12.37	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092757	637322.09	4273080.41	12.55	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092758	637329.53	4273081.38	12.73	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092759	637336.96	4273082.34	12.92	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092760	637344.40	4273083.31	13.10	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092761	637351.84	4273084.27	13.03	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092762	637359.28	4273085.23	12.95	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092763	637366.71	4273086.20	12.88	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092764	637374.15	4273087.16	12.80	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092765	637381.59	4273088.13	12.83	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092766	637389.01	4273089.21	12.87	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092767	637396.34	4273090.81	12.94	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092768	637403.66	4273092.40	13.03	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

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SLINE5	L0092769	637410.99	4273093.99	13.00	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092770	637418.32	4273095.59	12.95	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092771	637425.65	4273097.18	12.86	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092772	637432.98	4273098.77	12.77	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092773	637440.31	4273100.37	12.68	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092774	637447.64	4273101.96	12.59	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092775	637454.97	4273103.55	12.50	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092776	637462.29	4273105.15	12.41	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092777	637469.62	4273106.74	12.22	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092778	637476.95	4273108.33	12.01	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092779	637483.07	4273104.13	11.81	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092780	637489.15	4273099.74	11.55	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092781	637495.23	4273095.35	11.27	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092782	637501.31	4273090.96	11.13	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092783	637507.39	4273086.57	11.01	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092784	637513.47	4273082.18	10.90	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092785	637519.55	4273077.79	10.82	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092786	637525.63	4273073.40	10.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092787	637531.71	4273069.00	10.71	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092788	637537.79	4273064.61	10.66	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092789	637543.87	4273060.22	10.60	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092790	637548.98	4273054.94	10.55	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092791	637552.84	4273048.51	10.50	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092792	637556.70	4273042.08	10.44	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092793	637560.56	4273035.65	10.37	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

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SLINE5	L0092794	637564.42	4273029.22	10.27	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092795	637568.28	4273022.79	10.18	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092796	637572.14	4273016.35	10.10	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092797	637576.00	4273009.92	10.04	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092798	637579.85	4273003.49	10.00	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092799	637583.71	4272997.06	9.98	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092800	637587.57	4272990.63	9.97	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092801	637591.43	4272984.20	9.95	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092802	637594.06	4272977.42	9.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092803	637594.12	4272969.92	9.79	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092804	637594.18	4272962.42	9.69	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092805	637594.23	4272954.92	9.59	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092806	637594.29	4272947.42	9.48	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092807	637594.34	4272939.92	9.43	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092808	637594.40	4272932.42	9.41	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092809	637594.46	4272924.92	9.39	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092810	637594.51	4272917.42	9.37	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092811	637594.57	4272909.92	9.34	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092812	637594.63	4272902.42	9.32	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092813	637594.68	4272894.92	9.29	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092814	637594.74	4272887.42	9.26	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092815	637594.80	4272879.93	9.24	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092816	637594.85	4272872.43	9.21	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092817	637594.91	4272864.93	9.18	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092818	637594.97	4272857.43	9.15	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092819	637595.02	4272849.93	9.16	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092820	637595.08	4272842.43	9.19	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092821	637595.13	4272834.93	9.22	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092822	637595.19	4272827.43	9.25	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092823	637595.25	4272819.93	9.26	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092824	637595.30	4272812.43	9.26	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092825	637595.36	4272804.93	9.26	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092826	637595.42	4272797.43	9.26	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092827	637595.47	4272789.93	9.24	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092828	637595.53	4272782.43	9.21	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092829	637595.59	4272774.93	9.18	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092830	637595.64	4272767.43	9.15	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092831	637595.70	4272759.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092832	637595.75	4272752.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092833	637595.81	4272744.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092834	637595.87	4272737.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092835	637595.92	4272729.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092836	637595.98	4272722.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092837	637596.04	4272714.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092838	637596.09	4272707.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092839	637596.15	4272699.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092840	637596.21	4272692.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092841	637596.26	4272684.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092842	637596.32	4272677.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092843	637596.37	4272669.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092844	637596.43	4272662.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092845	637596.49	4272654.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092846	637596.54	4272647.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092847	637596.60	4272639.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092848	637596.66	4272632.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092849	637596.71	4272624.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092850	637596.77	4272617.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092851	637596.83	4272609.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092852	637596.88	4272602.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092853	637596.94	4272594.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092854	637597.00	4272587.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092855	637597.05	4272579.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092856	637597.11	4272572.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092857	637597.16	4272564.93	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092858	637597.22	4272557.43	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092859	637597.28	4272549.93	9.12	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092860	637597.33	4272542.43	9.09	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092861	637597.39	4272534.93	9.05	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092862	637597.45	4272527.44	9.02	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092863	637597.50	4272519.94	9.03	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092864	637597.56	4272512.44	9.06	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092865	637597.62	4272504.94	9.10	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092866	637597.67	4272497.44	9.13	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092867	637597.73	4272489.94	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092868	637597.78	4272482.44	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092869	637597.84	4272474.94	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092870	637597.90	4272467.44	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092871	637597.94	4272459.94	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092872	637597.94	4272452.44	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092873	637597.94	4272444.94	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092874	637597.94	4272437.44	9.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092875	637597.94	4272429.94	9.21	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092876	637597.94	4272422.44	9.32	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092877	637597.94	4272414.94	9.43	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092878	637597.94	4272407.44	9.53	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092879	637597.94	4272399.94	9.57	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092880	637597.94	4272392.44	9.57	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092881	637597.94	4272384.94	9.57	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092882	637597.94	4272377.44	9.57	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092883	637597.94	4272369.94	9.55	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092884	637597.94	4272362.44	9.51	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092885	637599.61	4272356.64	9.52	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092886	637607.11	4272356.78	9.71	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092887	637614.61	4272356.92	9.88	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092888	637622.11	4272357.06	9.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092889	637629.61	4272357.21	10.10	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092890	637637.10	4272357.35	10.21	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092891	637644.60	4272357.49	10.30	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092892	637652.10	4272357.63	10.11	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092893	637659.60	4272357.77	9.93	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092894	637667.10	4272357.91	9.76	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092895	637674.60	4272358.05	9.56	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092896	637682.10	4272358.20	9.07	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092897	637689.60	4272358.34	8.58	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092898	637697.09	4272358.48	8.08	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092899	637704.59	4272358.62	7.69	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092900	637712.09	4272358.76	8.53	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092901	637719.59	4272358.90	9.36	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092902	637727.09	4272359.05	10.20	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092903	637734.59	4272359.19	10.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092904	637742.09	4272359.33	11.26	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092905	637749.58	4272359.47	11.53	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092906	637757.08	4272359.61	11.80	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092907	637764.58	4272359.75	12.05	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092908	637772.08	4272359.89	12.16	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092909	637779.58	4272360.04	12.28	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092910	637787.08	4272360.18	12.39	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092911	637794.58	4272360.32	12.49	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092912	637802.08	4272360.46	12.41	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092913	637809.57	4272360.60	12.34	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092914	637817.07	4272360.74	12.26	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092915	637824.57	4272360.88	12.19	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092916	637832.07	4272361.03	12.19	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092917	637839.57	4272361.17	12.19	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092918	637847.07	4272361.31	12.19	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092919	637854.57	4272361.45	12.19	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092920	637862.06	4272361.59	12.16	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092921	637869.56	4272361.73	12.12	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092922	637877.06	4272361.87	12.09	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092923	637884.56	4272362.02	12.06	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092924	637892.06	4272362.16	12.02	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092925	637899.56	4272362.30	11.97	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092926	637907.06	4272362.44	11.93	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092927	637914.55	4272362.58	11.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092928	637922.05	4272362.72	11.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092929	637929.55	4272362.87	11.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092930	637937.05	4272363.01	11.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092931	637944.55	4272363.15	11.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092932	637952.05	4272363.29	11.94	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092933	637959.55	4272363.43	11.98	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092934	637967.05	4272363.57	12.03	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092935	637974.54	4272363.71	12.08	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092936	637982.04	4272363.86	12.11	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092937	637989.54	4272364.00	12.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092938	637997.04	4272364.14	12.17	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092939	638004.54	4272364.28	12.20	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092940	638010.85	4272363.19	12.23	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092941	638010.98	4272355.69	12.22	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092942	638011.11	4272348.20	12.20	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092943	638011.25	4272340.70	12.18	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092944	638011.38	4272333.20	12.16	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092945	638011.51	4272325.70	12.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092946	638011.64	4272318.20	12.12	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092947	638011.77	4272310.70	12.04	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092948	638011.90	4272303.20	11.91	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092949	638012.03	4272295.70	11.77	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092950	638012.16	4272288.20	11.64	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092951	638012.29	4272280.71	11.54	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092952	638012.42	4272273.21	11.46	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092953	638012.55	4272265.71	11.39	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092954	638012.69	4272258.21	11.31	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092955	638012.82	4272250.71	11.23	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092956	638012.95	4272243.21	11.16	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092957	638013.08	4272235.71	11.08	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092958	638013.21	4272228.21	11.01	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092959	638013.34	4272220.71	10.94	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092960	638013.47	4272213.22	10.89	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092961	638013.60	4272205.72	10.84	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092962	638013.73	4272198.22	10.79	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092963	638013.86	4272190.72	10.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092964	638013.99	4272183.22	10.73	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092965	638014.13	4272175.72	10.71	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092966	638014.26	4272168.22	10.68	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092967	638014.39	4272160.72	10.63	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092968	638014.52	4272153.23	10.55	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092969	638014.65	4272145.73	10.47	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092970	638014.78	4272138.23	10.40	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092971	638014.91	4272130.73	10.36	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092972	638015.04	4272123.23	10.36	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092973	638015.17	4272115.73	10.36	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092974	638015.30	4272108.23	10.36	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092975	638015.43	4272100.73	10.32	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092976	638015.57	4272093.23	10.24	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092977	638015.70	4272085.74	10.17	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092978	638015.83	4272078.24	10.09	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092979	638015.96	4272070.74	10.02	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092980	638016.09	4272063.24	9.94	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092981	638016.22	4272055.74	9.86	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092982	638016.35	4272048.24	9.79	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092983	638016.48	4272040.74	9.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092984	638016.61	4272033.24	9.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092985	638016.74	4272025.74	9.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092986	638016.87	4272018.25	9.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092987	638017.00	4272010.75	9.71	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092988	638017.14	4272003.25	9.64	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092989	638017.27	4271995.75	9.56	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092990	638017.40	4271988.25	9.48	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092991	638017.53	4271980.75	9.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092992	638017.66	4271973.25	9.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092993	638017.79	4271965.75	9.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0092994	638017.92	4271958.25	9.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092995	638018.05	4271950.76	9.41	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092996	638018.18	4271943.26	9.33	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092997	638018.31	4271935.76	9.25	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092998	638018.44	4271928.26	9.18	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0092999	638018.58	4271920.76	8.85	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093000	638018.71	4271913.26	8.31	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093001	638018.84	4271905.76	7.78	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093002	638018.97	4271898.26	7.25	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093003	638019.10	4271890.77	7.35	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093004	638019.23	4271883.27	7.96	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093005	638019.36	4271875.77	8.57	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093006	638019.49	4271868.27	9.18	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093007	638019.62	4271860.77	9.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093008	638019.75	4271853.27	9.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093009	638019.88	4271845.77	9.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093010	638020.02	4271838.27	9.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093011	638020.15	4271830.77	9.49	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093012	638020.28	4271823.28	9.57	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093013	638020.41	4271815.78	9.64	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093014	638020.54	4271808.28	9.72	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093015	638020.67	4271800.78	9.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093016	638020.80	4271793.28	9.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093017	638020.93	4271785.78	9.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093018	638021.06	4271778.28	9.75	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0093019	638021.19	4271770.78	9.77	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093020	638021.32	4271763.28	9.80	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093021	638021.46	4271755.79	9.83	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093022	638021.59	4271748.29	9.87	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093023	638021.72	4271740.79	9.90	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093024	638021.85	4271733.29	9.95	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093025	638021.98	4271725.79	9.99	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093026	638022.11	4271718.29	10.04	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093027	638022.24	4271710.79	10.14	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093028	638022.37	4271703.29	10.29	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093029	638022.50	4271695.79	10.45	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093030	638022.63	4271688.30	10.60	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093031	638022.76	4271680.80	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093032	638022.89	4271673.30	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093033	638023.03	4271665.80	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093034	638023.16	4271658.30	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093035	638023.29	4271650.80	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093036	638023.42	4271643.30	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093037	638023.55	4271635.80	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093038	638023.68	4271628.31	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093039	638023.81	4271620.81	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093040	638023.94	4271613.31	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093041	638024.07	4271605.81	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093042	638024.20	4271598.31	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093043	638024.33	4271590.81	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0093044	638024.47	4271583.31	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093045	638024.60	4271575.81	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093046	638024.73	4271568.31	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093047	638024.86	4271560.82	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093048	638024.99	4271553.32	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093049	638025.12	4271545.82	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093050	638025.25	4271538.32	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093051	638025.38	4271530.82	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093052	638025.51	4271523.32	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093053	638025.64	4271515.82	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093054	638025.77	4271508.32	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093055	638025.91	4271500.82	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093056	638026.04	4271493.33	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093057	638026.17	4271485.83	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093058	638026.30	4271478.33	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093059	638026.43	4271470.83	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093060	638026.56	4271463.33	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093061	638026.69	4271455.83	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093062	638026.82	4271448.33	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093063	638026.95	4271440.83	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093064	638027.08	4271433.33	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093065	638027.21	4271425.84	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093066	638027.35	4271418.34	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093067	638027.48	4271410.84	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093068	638027.61	4271403.34	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0093069	638027.74	4271395.84	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093070	638027.87	4271388.34	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093071	638028.00	4271380.84	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093072	638028.13	4271373.34	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093073	638028.26	4271365.85	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093074	638028.39	4271358.35	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093075	638028.52	4271350.85	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093076	638028.65	4271343.35	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093077	638028.79	4271335.85	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093078	638028.92	4271328.35	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093079	638029.05	4271320.85	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093080	638029.18	4271313.35	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093081	638029.31	4271305.85	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093082	638029.44	4271298.36	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093083	638029.57	4271290.86	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093084	638029.70	4271283.36	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093085	638029.83	4271275.86	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093086	638029.96	4271268.36	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093087	638030.09	4271260.86	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093088	638030.22	4271253.36	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093089	638030.36	4271245.86	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093090	638030.49	4271238.36	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093091	638030.62	4271230.87	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093092	638030.75	4271223.37	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093093	638030.88	4271215.87	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0093094	638031.01	4271208.37	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093095	638031.14	4271200.87	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093096	638031.27	4271193.37	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093097	638031.40	4271185.87	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093098	638031.53	4271178.37	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093099	638031.66	4271170.87	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093100	638031.80	4271163.38	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093101	638031.93	4271155.88	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093102	638032.06	4271148.38	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093103	638032.19	4271140.88	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093104	638032.32	4271133.38	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093105	638032.45	4271125.88	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093106	638032.58	4271118.38	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093107	638032.71	4271110.88	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093108	638032.84	4271103.39	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093109	638032.97	4271095.89	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093110	638033.10	4271088.39	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093111	638033.24	4271080.89	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093112	638033.37	4271073.39	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093113	638033.50	4271065.89	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093114	638033.63	4271058.39	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093115	638033.76	4271050.89	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093116	638033.89	4271043.39	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093117	638034.02	4271035.90	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093118	638034.15	4271028.40	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0093119	638034.28	4271020.90	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093120	638034.41	4271013.40	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093121	638034.54	4271005.90	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093122	638034.68	4270998.40	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093123	638034.81	4270990.90	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093124	638034.94	4270983.40	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093125	638035.07	4270975.90	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093126	638035.20	4270968.41	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093127	638035.33	4270960.91	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093128	638035.46	4270953.41	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093129	638035.59	4270945.91	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093130	638035.72	4270938.41	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093131	638035.85	4270930.91	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093132	638035.98	4270923.41	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093133	638036.11	4270915.91	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093134	638036.25	4270908.41	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093135	638036.38	4270900.92	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093136	638036.51	4270893.42	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093137	638036.64	4270885.92	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093138	638036.77	4270878.42	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093139	638036.90	4270870.92	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093140	638037.03	4270863.42	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093141	638037.16	4270855.92	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093142	638037.29	4270848.42	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093143	638037.42	4270840.93	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE5	L0093144	638037.55	4270833.43	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093145	638037.69	4270825.93	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093146	638037.82	4270818.43	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093147	638037.95	4270810.93	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093148	638038.08	4270803.43	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093149	638038.21	4270795.93	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093150	638038.34	4270788.43	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093151	638038.47	4270780.93	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093152	638038.60	4270773.44	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093153	638038.73	4270765.94	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58
	L0093154	638038.86	4270758.44	10.67	0.00	0.00157	7.50	Surface-Based	3.49	1.58

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE6	L0093155	633691.74	4271138.87	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093156	633689.09	4271130.86	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093157	633686.45	4271122.84	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093158	633683.80	4271114.83	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093159	633681.16	4271106.81	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093160	633678.51	4271098.80	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093161	633675.87	4271090.78	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093162	633673.22	4271082.77	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093163	633670.58	4271074.75	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093164	633667.93	4271066.74	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093165	633665.29	4271058.72	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093166	633662.64	4271050.71	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE6	L0093167	633660.00	4271042.69	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093168	633657.35	4271034.68	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093169	633654.71	4271026.66	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093170	633652.06	4271018.65	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093171	633649.42	4271010.63	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093172	633646.77	4271002.62	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093173	633644.13	4270994.60	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093174	633641.48	4270986.59	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093175	633638.84	4270978.57	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093176	633636.19	4270970.56	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093177	633633.55	4270962.54	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093178	633630.91	4270954.53	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093179	633628.26	4270946.51	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093180	633625.62	4270938.50	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093181	633622.97	4270930.48	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093182	633620.33	4270922.47	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093183	633617.68	4270914.45	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093184	633615.04	4270906.44	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093185	633612.39	4270898.42	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093186	633609.75	4270890.41	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093187	633607.10	4270882.39	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093188	633604.46	4270874.38	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093189	633601.81	4270866.36	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093190	633599.17	4270858.35	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093191	633596.52	4270850.34	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE6	L0093192	633593.88	4270842.32	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093193	633591.23	4270834.31	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093194	633588.59	4270826.29	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093195	633585.94	4270818.28	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093196	633583.30	4270810.26	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093197	633580.65	4270802.25	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093198	633578.01	4270794.23	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093199	633575.36	4270786.22	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093200	633572.72	4270778.20	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093201	633570.07	4270770.19	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093202	633567.43	4270762.17	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093203	633564.78	4270754.16	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093204	633562.14	4270746.14	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093205	633559.49	4270738.13	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093206	633556.85	4270730.11	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093207	633554.20	4270722.10	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093208	633551.56	4270714.08	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093209	633548.91	4270706.07	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093210	633546.27	4270698.05	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093211	633543.62	4270690.04	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093212	633540.98	4270682.02	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093213	633538.33	4270674.01	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093214	633535.69	4270665.99	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093215	633533.04	4270657.98	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093216	633530.40	4270649.96	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE6	L0093217	633527.75	4270641.95	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093218	633525.11	4270633.93	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093219	633522.46	4270625.92	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093220	633519.82	4270617.90	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093221	633517.17	4270609.89	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093222	633514.53	4270601.87	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093223	633511.88	4270593.86	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093224	633509.24	4270585.84	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093225	633506.59	4270577.83	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093226	633503.95	4270569.81	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093227	633501.30	4270561.80	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093228	633503.71	4270556.68	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093229	633511.96	4270554.91	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093230	633520.21	4270553.14	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093231	633528.46	4270551.37	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093232	633536.72	4270549.60	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093233	633542.08	4270552.74	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093234	633544.52	4270560.82	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093235	633546.96	4270568.90	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093236	633549.40	4270576.98	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093237	633551.84	4270585.06	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093238	633554.27	4270593.13	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093239	633556.71	4270601.21	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093240	633559.15	4270609.29	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093241	633561.59	4270617.37	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE6	L0093242	633564.03	4270625.45	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093243	633566.47	4270633.53	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093244	633568.91	4270641.61	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093245	633571.35	4270649.69	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093246	633573.79	4270657.77	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093247	633576.23	4270665.85	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093248	633578.67	4270673.93	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093249	633581.11	4270682.01	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093250	633583.55	4270690.09	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093251	633585.99	4270698.17	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093252	633588.43	4270706.25	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093253	633590.87	4270714.33	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093254	633593.31	4270722.41	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093255	633595.75	4270730.49	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093256	633598.19	4270738.57	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093257	633600.63	4270746.65	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093258	633603.07	4270754.73	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093259	633605.51	4270762.81	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093260	633607.95	4270770.89	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093261	633610.39	4270778.97	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093262	633612.83	4270787.05	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093263	633615.27	4270795.13	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093264	633617.71	4270803.21	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093265	633620.15	4270811.29	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093266	633622.59	4270819.36	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE6	L0093267	633625.03	4270827.44	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093268	633627.47	4270835.52	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093269	633629.91	4270843.60	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093270	633632.35	4270851.68	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093271	633634.79	4270859.76	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093272	633637.23	4270867.84	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093273	633639.67	4270875.92	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093274	633642.11	4270884.00	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093275	633644.55	4270892.08	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093276	633646.99	4270900.16	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093277	633649.43	4270908.24	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093278	633651.87	4270916.32	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093279	633654.31	4270924.40	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093280	633656.75	4270932.48	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093281	633659.19	4270940.56	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093282	633661.63	4270948.64	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093283	633664.07	4270956.72	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093284	633666.51	4270964.80	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093285	633668.95	4270972.88	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093286	633671.39	4270980.96	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093287	633673.83	4270989.04	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093288	633676.27	4270997.12	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093289	633678.71	4271005.20	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093290	633681.15	4271013.28	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093291	633683.59	4271021.36	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE6	L0093292	633686.03	4271029.44	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093293	633688.47	4271037.51	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093294	633690.91	4271045.59	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093295	633693.35	4271053.67	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093296	633695.79	4271061.75	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093297	633698.23	4271069.83	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093298	633700.67	4271077.91	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093299	633703.11	4271085.99	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093300	633705.55	4271094.07	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093301	633707.99	4271102.15	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093302	633710.43	4271110.23	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093303	633712.87	4271118.31	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093304	633715.31	4271126.39	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93
	L0093305	633717.75	4271134.47	7.62	1.70	0.00662	8.44	Surface-Based	3.93	1.93

Source Pathway

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Source Groups

Source Group ID: VOL	List of Sources in Group (Source Range or Single Sources)
	VOL3673
	VOL3674
	VOL3675
	VOL3676
	VOL3874
	VOL3875
	VOL3876
	VOL3877
	VOL3878
	VOL3879
	VOL3880
	VOL4075
	VOL4076
	VOL4077
	VOL4078
	VOL4079
	VOL4080
	VOL4081
	VOL4082
	VOL4083
	VOL4276
	VOL4277
	VOL4278
	VOL4279
	VOL4280
	VOL4281
	VOL4282
	VOL4283
	VOL4284
	VOL4285
	VOL4286
	VOL4478
	VOL4479
	VOL4480
	VOL4481
	VOL4482
	VOL4483
	VOL4484
	VOL4485
	VOL4486
	VOL4487
	VOL4488
	VOL4680
	VOL4681

VOL4682
VOL4683
VOL4684
VOL4685
VOL4686
VOL4687
VOL4688
VOL4689
VOL4690
VOL4882
VOL4883
VOL4884
VOL4885
VOL4886
VOL4887
VOL4888
VOL4889
VOL4890
VOL4891
VOL4892
VOL5085
VOL5086
VOL5087
VOL5088
VOL5089
VOL5090
VOL5091
VOL5092
VOL5093
VOL5094
VOL5287
VOL5288
VOL5289
VOL5290
VOL5291
VOL5292
VOL5293
VOL5294
VOL5295
VOL5296
VOL5297
VOL5490
VOL5491
VOL5492
VOL5493
VOL5494
VOL5495

VOL5496
VOL5497
VOL5498
VOL5499
VOL5693
VOL5694
VOL5695
VOL5696
VOL5697
VOL5698
VOL5699
VOL5700
VOL5701
VOL5895
VOL5896
VOL5897
VOL5898
VOL5899
VOL5900
VOL5901
VOL5902
VOL5903
VOL6097
VOL6098
VOL6099
VOL6100
VOL6101
VOL6102
VOL6103
VOL6104
VOL6105
VOL6298
VOL6299
VOL6300
VOL6301
VOL6302
VOL6303
VOL6304
VOL6305
VOL6306
VOL6307
VOL6498
VOL6499
VOL6500
VOL6501
VOL6502
VOL6503

VOL6504
VOL6505
VOL6506
VOL6507
VOL6508
VOL6509
VOL6699
VOL6700
VOL6701
VOL6702
VOL6703
VOL6704
VOL6705
VOL6706
VOL6707
VOL6708
VOL6709
VOL6710
VOL6711
VOL6900
VOL6901
VOL6902
VOL6903
VOL6907
VOL6908
VOL6909
VOL6910
VOL6911
VOL6912
VOL6913
VOL7101
VOL7102
VOL7103
VOL7109
VOL7110
VOL7111
VOL7112
VOL7113
VOL7114
VOL7115
VOL7302
VOL7303
VOL7311
VOL7312
VOL7313
VOL7314
VOL7315

VOL7316
VOL7317
VOL7513
VOL7514
VOL7515
VOL7516
VOL7517
VOL7518
VOL7519
VOL7716
VOL7717
VOL7718
VOL7719
VOL7720
VOL7721
VOL7918
VOL7919
VOL7920
VOL7921
VOL7922
VOL7923
VOL8120
VOL8121
VOL8122
VOL8123
VOL8124
VOL8125
VOL8322
VOL8323
VOL8324
VOL8325
VOL8326
VOL8327
VOL8524
VOL8525
VOL8526
VOL8527
VOL8528
VOL8529
VOL8726
VOL8727
VOL8728
VOL8729
VOL8730
VOL8731
VOL8928
VOL8929

VOL8930
VOL8931
VOL8932
VOL8933
VOL9130
VOL9131
VOL9132
VOL9133
VOL9134
VOL9135
VOL9332
VOL9333
VOL9334
VOL9335
VOL9336
VOL9337
VOL9534
VOL9535
VOL9536
VOL9537
VOL9538
VOL9539
VOL9736
VOL9737
VOL9738
VOL9739
VOL9740
VOL9741
VOL9938
VOL9939
VOL9940
VOL9941
VOL9942
VOL9943
VOL10140
VOL10141
VOL10142
VOL10143
VOL10144
VOL10145
VOL10342
VOL10343
VOL10344
VOL10345
VOL10346
VOL10347
VOL10544

VOL10545
VOL10546
VOL10547
VOL10548
VOL10549
VOL10746
VOL10747
VOL10748
VOL10749
VOL10750
VOL10751
VOL10948
VOL10949
VOL10950
VOL10951
VOL10952
VOL10953
VOL11150
VOL11151
VOL11152
VOL11153
VOL11154
VOL11155
VOL11352
VOL11353
VOL11354
VOL11355
VOL11356
VOL11357
VOL11554
VOL11555
VOL11556
VOL11557
VOL11558
VOL11559
VOL11756
VOL11757
VOL11758
VOL11759
VOL11760
VOL11761
VOL11958
VOL11959
VOL11960
VOL11961
VOL11962
VOL11963

VOL12160
VOL12161
VOL12162
VOL12163
VOL12164
VOL12165
VOL12362
VOL12363
VOL12364
VOL12365
VOL12366
VOL12367
VOL12564
VOL12565
VOL12566
VOL12567
VOL12568
VOL12569
VOL12766
VOL12767
VOL12768
VOL12769
VOL12770
VOL12771
VOL12772
VOL12969
VOL12970
VOL12971
VOL12972
VOL12973
VOL12974
VOL13171
VOL13172
VOL13173
VOL13174
VOL13175
VOL13176
VOL13177
VOL13373
VOL13374
VOL13375
VOL13376
VOL13377
VOL13378
VOL13379
VOL13380
VOL13576

	VOL13577
	VOL13578
	VOL13579
	VOL13580
	VOL13581
	VOL13582
	VOL13778
	VOL13779
	VOL13780
	VOL13781
	VOL13782
	VOL13783
	VOL13980
	VOL13981
	VOL13982
	VOL13983
	VOL13984
	VOL14183
	VOL14184
	VOL14185
	VOL14385
	VOL14386

Source Group ID: **SLINE**	List of Sources in Group (Source Range or Single Sources)
	SLINE1
	SLINE4
	SLINE5
	SLINE6

Source Group ID: **ALL**	List of Sources in Group (Source Range or Single Sources)
	All Sources Included

Variable Emissions

Hourly Emission Rate Variation

Scenario: SLINE

Source ID:	SLINE1						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	SLINE4						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	SLINE5						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	SLINE6						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Scenario: VOL

Source ID:	VOL3673						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL3674						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL3675						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL3676						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3874**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3875**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3876**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3877**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3878**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3879**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3880**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL3880						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4075**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4076**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4077**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4078**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4079**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4080**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4081**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4082					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4083					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4276					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4277					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4278					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4279					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4280					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4281					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL4281						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4282**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4283**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4284**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4285**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4286**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4478**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4479**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL4479						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4480**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4481**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4482**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4483**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4484**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4485**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4486**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL4487						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4488**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4680**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4681**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4682**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4683**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4684**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4685**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source ID:	VOL4685						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4686**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4687**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4688**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4689**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4690**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4882**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4883**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL4884					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4885**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4886**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4887**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4888**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4889**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4890**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4891**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4891						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4892**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5085**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5086**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5087**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5088**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5089**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5090**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL5090						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5091**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5092**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5093**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5094**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5287**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5288**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5289**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL5290						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5291**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5292**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5293**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5294**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5295**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5296**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5297**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL5297						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5490**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5491**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5492**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5493**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5494**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5495**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5496**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL5497					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL5498					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL5499					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL5693					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL5694					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL5695					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL5696					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL5697					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL5697						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5698**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5699**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5700**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5701**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5895**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5896**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5897**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL5897						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5898**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5899**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5900**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5901**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5902**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5903**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6097**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL6098						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6099**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6100**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6101**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6102**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6103**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6104**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6105**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL6105						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6298**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6299**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6300**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6301**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6302**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6303**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6304**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL6305						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6306**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6307**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6498**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6499**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6500**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6501**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6502**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL6502						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6503**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6504**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6505**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6506**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6507**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6508**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6509**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL6509						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6699**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6700**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6701**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6702**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6703**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6704**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6705**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL6706						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6707**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6708**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6709**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6710**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6711**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6900**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6901**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL6901						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6902**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6903**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6907**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6908**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6909**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6910**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6911**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL6912						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL6913						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL7101						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL7102						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL7103						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL7109						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL7110						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL7111						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL7111						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7112**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7113**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7114**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7115**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7302**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7303**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7311**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source ID:	VOL7311						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7312**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7313**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7314**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7315**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7316**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7317**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7513**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL7514						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7515**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7516**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7517**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7518**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7519**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7716**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7717**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source ID:	VOL7717						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7718**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7719**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7720**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7721**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7918**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7919**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7920**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL7921						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7922**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7923**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8120**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8121**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8122**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8123**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8124**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL8124						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8125**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8322**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8323**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8324**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8325**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8326**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8327**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL8327						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8524**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8525**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8526**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8527**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8528**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8529**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8726**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL8727						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8728**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8729**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8730**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8731**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8928**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8929**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8930**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL8930						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8931**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8932**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8933**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9130**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9131**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9132**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9133**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9134						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9135**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9332**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9333**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9334**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9335**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9336**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9337**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL9337						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9534**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9535**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9536**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9537**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9538**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9539**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9736**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL9736					
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9737					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9738					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9739					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9740					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9741					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9938					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9939					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9940						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9941**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9942**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9943**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10140**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10141**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10142**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10143**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source ID:	VOL10143					
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10144					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10145					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10342					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10343					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10344					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10345					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10346					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10347						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10544						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10545						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10546						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10547						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10548						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10549						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10746						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL10746					
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10747**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10748**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10749**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10750**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10751**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10948**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10949**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00

Source ID:	VOL10949					
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10950					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10951					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10952					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10953					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11150					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11151					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11152					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11153						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11154						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11155						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11352						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11353						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11354						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11355						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11356						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source ID:	VOL11356						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11357**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11554**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11555**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11556**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11557**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11558**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11559**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL11756					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11757					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11758					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11759					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11760					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11761					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11958					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11959					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11959						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11960**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11961**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11962**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11963**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12160**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12161**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12162**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL12162					
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12163					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12164					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12165					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12362					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12363					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12364					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12365					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12366						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12367						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12564						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12565						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12566						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12567						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12568						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12569						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL12569						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12766**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12767**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12768**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12769**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12770**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12771**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12772**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12969						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12970						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12971						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12972						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12973						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12974						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13171						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13172						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL13172						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13173**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13174**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13175**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13176**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13177**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13373**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13374**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL13374						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13375**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13376**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13377**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13378**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13379**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13380**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13576**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL13577						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13578**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13579**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13580**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13581**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13582**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13778**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13779**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL13779					
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13780**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13781**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13782**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13783**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13980**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13981**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13982**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL13983						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13984						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14183						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14184						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14185						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14385						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14386						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	636726.16	4269592.29	UCART1	10.99	
2	636766.16	4269592.29	UCART1	11.98	
3	637006.16	4269592.29	UCART1	11.05	
4	637046.16	4269592.29	UCART1	10.95	
5	637086.16	4269592.29	UCART1	10.67	
6	637126.16	4269592.29	UCART1	10.44	
7	637166.16	4269592.29	UCART1	10.27	
8	637206.16	4269592.29	UCART1	9.93	
9	637246.16	4269592.29	UCART1	9.53	
10	637286.16	4269592.29	UCART1	9.12	
11	637326.16	4269592.29	UCART1	8.72	
12	636766.16	4269632.29	UCART1	11.89	
13	637006.16	4269632.29	UCART1	11.23	
14	637046.16	4269632.29	UCART1	10.95	
15	637086.16	4269632.29	UCART1	10.67	
16	637126.16	4269632.29	UCART1	10.44	
17	637166.16	4269632.29	UCART1	10.05	
18	637206.16	4269632.29	UCART1	9.76	
19	637246.16	4269632.29	UCART1	9.35	
20	637286.16	4269632.29	UCART1	8.95	
21	637326.16	4269632.29	UCART1	8.54	
22	636686.16	4269672.29	UCART1	11.30	
23	637006.16	4269672.29	UCART1	11.36	
24	637046.16	4269672.29	UCART1	10.97	
25	637086.16	4269672.29	UCART1	10.83	
26	637126.16	4269672.29	UCART1	10.44	
27	637166.16	4269672.29	UCART1	10.04	
28	637206.16	4269672.29	UCART1	9.63	
29	637246.16	4269672.29	UCART1	9.22	
30	637286.16	4269672.29	UCART1	8.82	

31	637326.16	4269672.29	UCART1	8.41
32	636686.16	4269712.29	UCART1	11.58
33	636726.16	4269712.29	UCART1	11.71
34	636766.16	4269712.29	UCART1	11.94
35	637046.16	4269712.29	UCART1	11.26
36	637246.16	4269712.29	UCART1	9.15
37	637286.16	4269712.29	UCART1	8.74
38	637326.16	4269712.29	UCART1	8.37
39	636686.16	4269752.29	UCART1	11.60
40	636726.16	4269752.29	UCART1	11.81
41	636766.16	4269752.29	UCART1	12.11
42	636806.16	4269752.29	UCART1	11.43
43	637006.16	4269752.29	UCART1	11.84
44	637086.16	4269752.29	UCART1	10.85
45	637126.16	4269752.29	UCART1	10.31
46	637166.16	4269752.29	UCART1	9.85
47	637286.16	4269752.29	UCART1	8.51
48	637326.16	4269752.29	UCART1	8.16
49	637646.16	4269752.29	UCART1	8.71
50	637686.16	4269752.29	UCART1	8.83
51	637726.16	4269752.29	UCART1	9.02
52	637766.16	4269752.29	UCART1	9.14
53	637806.16	4269752.29	UCART1	9.22
54	636686.16	4269792.29	UCART1	11.86
55	636726.16	4269792.29	UCART1	11.89
56	636766.16	4269792.29	UCART1	12.11
57	636806.16	4269792.29	UCART1	12.03
58	636846.16	4269792.29	UCART1	11.83
59	637046.16	4269792.29	UCART1	11.26
60	637086.16	4269792.29	UCART1	10.74
61	637126.16	4269792.29	UCART1	10.14
62	637166.16	4269792.29	UCART1	9.73
63	637286.16	4269792.29	UCART1	8.51
64	637326.16	4269792.29	UCART1	8.11
65	637646.16	4269792.29	UCART1	9.14
66	637686.16	4269792.29	UCART1	9.41
67	637726.16	4269792.29	UCART1	9.63
68	637766.16	4269792.29	UCART1	9.42

69	637806.16	4269792.29	UCART1	9.43
70	636526.16	4269832.29	UCART1	10.67
71	636566.16	4269832.29	UCART1	10.78
72	636686.16	4269832.29	UCART1	12.18
73	636726.16	4269832.29	UCART1	11.93
74	636766.16	4269832.29	UCART1	12.06
75	636806.16	4269832.29	UCART1	12.12
76	636846.16	4269832.29	UCART1	11.79
77	636966.16	4269832.29	UCART1	12.10
78	637006.16	4269832.29	UCART1	11.85
79	637046.16	4269832.29	UCART1	11.26
80	637086.16	4269832.29	UCART1	10.72
81	637126.16	4269832.29	UCART1	10.14
82	637166.16	4269832.29	UCART1	9.73
83	637206.16	4269832.29	UCART1	9.32
84	637246.16	4269832.29	UCART1	8.92
85	637286.16	4269832.29	UCART1	8.42
86	637326.16	4269832.29	UCART1	7.89
87	637646.16	4269832.29	UCART1	9.48
88	637686.16	4269832.29	UCART1	10.08
89	637726.16	4269832.29	UCART1	10.27
90	637766.16	4269832.29	UCART1	10.13
91	637806.16	4269832.29	UCART1	10.01
92	636566.16	4269872.29	UCART1	11.00
93	636686.16	4269872.29	UCART1	12.19
94	636726.16	4269872.29	UCART1	12.14
95	636766.16	4269872.29	UCART1	12.06
96	636806.16	4269872.29	UCART1	12.07
97	636846.16	4269872.29	UCART1	11.62
98	637006.16	4269872.29	UCART1	11.87
99	637046.16	4269872.29	UCART1	11.24
100	637086.16	4269872.29	UCART1	10.62
101	637126.16	4269872.29	UCART1	10.14
102	637166.16	4269872.29	UCART1	9.73
103	637206.16	4269872.29	UCART1	9.25
104	637246.16	4269872.29	UCART1	8.74
105	637286.16	4269872.29	UCART1	8.21
106	637646.16	4269872.29	UCART1	9.67

107	637686.16	4269872.29	UCART1	10.41
108	637726.16	4269872.29	UCART1	10.67
109	637766.16	4269872.29	UCART1	10.53
110	637806.16	4269872.29	UCART1	10.31
111	636566.16	4269912.29	UCART1	11.00
112	636646.16	4269912.29	UCART1	11.83
113	636686.16	4269912.29	UCART1	11.93
114	636726.16	4269912.29	UCART1	12.19
115	636766.16	4269912.29	UCART1	12.19
116	636806.16	4269912.29	UCART1	12.19
117	637046.16	4269912.29	UCART1	10.98
118	637086.16	4269912.29	UCART1	10.54
119	637126.16	4269912.29	UCART1	9.93
120	637166.16	4269912.29	UCART1	9.45
121	637206.16	4269912.29	UCART1	9.04
122	637246.16	4269912.29	UCART1	8.61
123	637286.16	4269912.29	UCART1	8.21
124	637606.16	4269912.29	UCART1	9.27
125	637646.16	4269912.29	UCART1	9.80
126	637686.16	4269912.29	UCART1	10.49
127	637726.16	4269912.29	UCART1	10.67
128	637766.16	4269912.29	UCART1	10.67
129	637806.16	4269912.29	UCART1	10.53
130	637086.16	4269952.29	UCART1	10.24
131	637126.16	4269952.29	UCART1	9.83
132	637166.16	4269952.29	UCART1	9.42
133	637206.16	4269952.29	UCART1	8.95
134	637246.16	4269952.29	UCART1	8.54
135	637286.16	4269952.29	UCART1	7.92
136	637606.16	4269952.29	UCART1	9.37
137	637646.16	4269952.29	UCART1	10.08
138	637686.16	4269952.29	UCART1	10.44
139	637726.16	4269952.29	UCART1	10.67
140	637766.16	4269952.29	UCART1	10.66
141	637806.16	4269952.29	UCART1	10.50
142	637846.16	4269952.29	UCART1	10.36
143	636766.16	4269992.29	UCART1	11.76
144	636806.16	4269992.29	UCART1	11.38

145	637086.16	4269992.29	UCART1	10.06
146	637126.16	4269992.29	UCART1	9.79
147	637166.16	4269992.29	UCART1	9.40
148	637206.16	4269992.29	UCART1	8.72
149	637246.16	4269992.29	UCART1	8.31
150	637286.16	4269992.29	UCART1	7.91
151	637606.16	4269992.29	UCART1	9.55
152	637646.16	4269992.29	UCART1	10.06
153	637686.16	4269992.29	UCART1	10.23
154	637766.16	4269992.29	UCART1	10.66
155	637806.16	4269992.29	UCART1	10.54
156	637846.16	4269992.29	UCART1	10.54
157	633686.16	4270032.29	UCART1	7.32
158	633726.16	4270032.29	UCART1	7.32
159	633766.16	4270032.29	UCART1	7.32
160	633806.16	4270032.29	UCART1	7.32
161	633846.16	4270032.29	UCART1	7.34
162	636246.16	4270032.29	UCART1	10.67
163	636286.16	4270032.29	UCART1	10.67
164	636326.16	4270032.29	UCART1	10.65
165	636366.16	4270032.29	UCART1	10.39
166	636406.16	4270032.29	UCART1	10.37
167	636766.16	4270032.29	UCART1	11.38
168	636806.16	4270032.29	UCART1	11.23
169	636886.16	4270032.29	UCART1	10.67
170	636926.16	4270032.29	UCART1	10.67
171	636966.16	4270032.29	UCART1	10.68
172	637166.16	4270032.29	UCART1	9.42
173	637206.16	4270032.29	UCART1	8.88
174	637246.16	4270032.29	UCART1	8.31
175	637566.16	4270032.29	UCART1	9.37
176	637606.16	4270032.29	UCART1	9.75
177	637646.16	4270032.29	UCART1	10.06
178	637686.16	4270032.29	UCART1	10.18
179	637766.16	4270032.29	UCART1	10.67
180	637806.16	4270032.29	UCART1	10.67
181	637846.16	4270032.29	UCART1	10.67
182	633566.16	4270072.29	UCART1	7.25

183	633606.16	4270072.29	UCART1	7.32
184	633646.16	4270072.29	UCART1	7.32
185	633686.16	4270072.29	UCART1	7.32
186	633726.16	4270072.29	UCART1	7.32
187	633766.16	4270072.29	UCART1	7.32
188	633806.16	4270072.29	UCART1	7.32
189	633846.16	4270072.29	UCART1	7.35
190	636246.16	4270072.29	UCART1	10.52
191	636286.16	4270072.29	UCART1	10.35
192	636326.16	4270072.29	UCART1	10.36
193	636366.16	4270072.29	UCART1	10.36
194	636406.16	4270072.29	UCART1	10.36
195	636606.16	4270072.29	UCART1	11.07
196	636646.16	4270072.29	UCART1	11.26
197	636686.16	4270072.29	UCART1	11.51
198	636726.16	4270072.29	UCART1	11.41
199	636766.16	4270072.29	UCART1	11.22
200	636806.16	4270072.29	UCART1	10.95
201	636846.16	4270072.29	UCART1	10.67
202	636886.16	4270072.29	UCART1	10.67
203	636926.16	4270072.29	UCART1	10.67
204	636966.16	4270072.29	UCART1	10.67
205	637006.16	4270072.29	UCART1	10.67
206	637046.16	4270072.29	UCART1	10.35
207	637086.16	4270072.29	UCART1	10.10
208	637246.16	4270072.29	UCART1	8.39
209	637566.16	4270072.29	UCART1	9.82
210	637606.16	4270072.29	UCART1	10.13
211	637646.16	4270072.29	UCART1	10.13
212	637686.16	4270072.29	UCART1	10.15
213	637726.16	4270072.29	UCART1	10.34
214	637806.16	4270072.29	UCART1	10.33
215	637846.16	4270072.29	UCART1	10.29
216	637886.16	4270072.29	UCART1	10.29
217	637926.16	4270072.29	UCART1	10.29
218	637966.16	4270072.29	UCART1	10.06
219	633606.16	4270112.29	UCART1	7.21
220	633646.16	4270112.29	UCART1	7.32

221	633686.16	4270112.29	UCART1	7.32
222	633726.16	4270112.29	UCART1	7.32
223	633766.16	4270112.29	UCART1	7.32
224	633806.16	4270112.29	UCART1	7.32
225	633846.16	4270112.29	UCART1	7.44
226	636246.16	4270112.29	UCART1	9.95
227	636286.16	4270112.29	UCART1	10.06
228	636326.16	4270112.29	UCART1	10.20
229	636406.16	4270112.29	UCART1	10.36
230	636446.16	4270112.29	UCART1	10.67
231	636606.16	4270112.29	UCART1	10.97
232	636646.16	4270112.29	UCART1	11.07
233	636686.16	4270112.29	UCART1	11.28
234	636726.16	4270112.29	UCART1	11.21
235	636766.16	4270112.29	UCART1	11.01
236	636806.16	4270112.29	UCART1	10.79
237	636846.16	4270112.29	UCART1	10.67
238	636886.16	4270112.29	UCART1	10.67
239	636926.16	4270112.29	UCART1	10.67
240	636966.16	4270112.29	UCART1	10.67
241	637006.16	4270112.29	UCART1	10.67
242	637046.16	4270112.29	UCART1	10.54
243	637086.16	4270112.29	UCART1	10.42
244	637126.16	4270112.29	UCART1	10.10
245	637166.16	4270112.29	UCART1	9.72
246	637206.16	4270112.29	UCART1	9.12
247	637246.16	4270112.29	UCART1	8.52
248	637566.16	4270112.29	UCART1	10.25
249	637606.16	4270112.29	UCART1	10.54
250	637646.16	4270112.29	UCART1	10.35
251	637686.16	4270112.29	UCART1	10.23
252	637726.16	4270112.29	UCART1	10.33
253	637806.16	4270112.29	UCART1	10.13
254	637846.16	4270112.29	UCART1	9.93
255	637886.16	4270112.29	UCART1	9.88
256	637926.16	4270112.29	UCART1	9.88
257	637966.16	4270112.29	UCART1	9.66
258	633606.16	4270152.29	UCART1	7.02

259	633646.16	4270152.29	UCART1	7.24
260	633686.16	4270152.29	UCART1	7.32
261	633726.16	4270152.29	UCART1	7.32
262	633766.16	4270152.29	UCART1	7.32
263	633806.16	4270152.29	UCART1	7.32
264	633846.16	4270152.29	UCART1	7.44
265	633886.16	4270152.29	UCART1	7.62
266	636246.16	4270152.29	UCART1	9.76
267	636286.16	4270152.29	UCART1	9.99
268	636326.16	4270152.29	UCART1	10.06
269	636406.16	4270152.29	UCART1	10.36
270	636446.16	4270152.29	UCART1	10.67
271	636606.16	4270152.29	UCART1	10.97
272	636646.16	4270152.29	UCART1	10.97
273	636686.16	4270152.29	UCART1	11.00
274	636726.16	4270152.29	UCART1	10.99
275	636766.16	4270152.29	UCART1	10.97
276	636846.16	4270152.29	UCART1	10.67
277	636886.16	4270152.29	UCART1	10.67
278	636926.16	4270152.29	UCART1	10.67
279	636966.16	4270152.29	UCART1	10.67
280	637006.16	4270152.29	UCART1	10.67
281	637046.16	4270152.29	UCART1	10.67
282	637086.16	4270152.29	UCART1	10.66
283	637126.16	4270152.29	UCART1	10.42
284	637166.16	4270152.29	UCART1	10.01
285	637206.16	4270152.29	UCART1	9.48
286	637246.16	4270152.29	UCART1	8.69
287	637606.16	4270152.29	UCART1	10.67
288	637646.16	4270152.29	UCART1	10.64
289	637686.16	4270152.29	UCART1	10.64
290	637726.16	4270152.29	UCART1	10.64
291	637766.16	4270152.29	UCART1	10.64
292	637846.16	4270152.29	UCART1	9.55
293	637886.16	4270152.29	UCART1	9.48
294	637926.16	4270152.29	UCART1	9.48
295	637966.16	4270152.29	UCART1	9.46
296	638006.16	4270152.29	UCART1	9.19

297	633246.16	4270192.29	UCART1	6.43
298	633286.16	4270192.29	UCART1	6.48
299	633326.16	4270192.29	UCART1	6.71
300	633486.16	4270192.29	UCART1	7.01
301	633526.16	4270192.29	UCART1	7.01
302	633566.16	4270192.29	UCART1	7.01
303	633606.16	4270192.29	UCART1	7.13
304	633646.16	4270192.29	UCART1	7.32
305	633686.16	4270192.29	UCART1	7.32
306	633726.16	4270192.29	UCART1	7.32
307	633766.16	4270192.29	UCART1	7.32
308	633806.16	4270192.29	UCART1	7.32
309	633846.16	4270192.29	UCART1	7.32
310	633886.16	4270192.29	UCART1	7.54
311	636246.16	4270192.29	UCART1	9.57
312	636286.16	4270192.29	UCART1	9.98
313	636326.16	4270192.29	UCART1	10.06
314	636366.16	4270192.29	UCART1	10.23
315	636406.16	4270192.29	UCART1	10.36
316	636446.16	4270192.29	UCART1	10.60
317	636566.16	4270192.29	UCART1	10.68
318	636606.16	4270192.29	UCART1	10.90
319	636646.16	4270192.29	UCART1	10.95
320	636686.16	4270192.29	UCART1	10.97
321	636726.16	4270192.29	UCART1	10.94
322	636806.16	4270192.29	UCART1	10.67
323	636846.16	4270192.29	UCART1	10.67
324	637006.16	4270192.29	UCART1	10.67
325	637046.16	4270192.29	UCART1	10.67
326	637086.16	4270192.29	UCART1	10.67
327	637126.16	4270192.29	UCART1	10.67
328	637166.16	4270192.29	UCART1	10.40
329	637206.16	4270192.29	UCART1	9.78
330	637246.16	4270192.29	UCART1	8.92
331	637566.16	4270192.29	UCART1	10.18
332	637646.16	4270192.29	UCART1	10.59
333	637686.16	4270192.29	UCART1	10.50
334	637726.16	4270192.29	UCART1	10.31

335	637766.16	4270192.29	UCART1	9.94
336	637806.16	4270192.29	UCART1	9.32
337	637886.16	4270192.29	UCART1	9.37
338	637926.16	4270192.29	UCART1	9.28
339	637966.16	4270192.29	UCART1	9.20
340	638006.16	4270192.29	UCART1	9.53
341	633126.16	4270232.29	UCART1	6.22
342	633166.16	4270232.29	UCART1	6.53
343	633206.16	4270232.29	UCART1	6.58
344	633486.16	4270232.29	UCART1	7.01
345	633526.16	4270232.29	UCART1	7.01
346	633566.16	4270232.29	UCART1	7.01
347	633606.16	4270232.29	UCART1	7.13
348	633766.16	4270232.29	UCART1	7.32
349	633806.16	4270232.29	UCART1	7.32
350	636246.16	4270232.29	UCART1	9.57
351	636286.16	4270232.29	UCART1	9.98
352	636326.16	4270232.29	UCART1	10.24
353	636366.16	4270232.29	UCART1	10.36
354	636406.16	4270232.29	UCART1	10.49
355	636446.16	4270232.29	UCART1	10.55
356	636566.16	4270232.29	UCART1	10.67
357	636606.16	4270232.29	UCART1	10.67
358	636646.16	4270232.29	UCART1	10.76
359	636686.16	4270232.29	UCART1	10.80
360	636766.16	4270232.29	UCART1	10.67
361	636806.16	4270232.29	UCART1	10.67
362	636846.16	4270232.29	UCART1	10.67
363	636886.16	4270232.29	UCART1	10.67
364	636926.16	4270232.29	UCART1	10.67
365	636966.16	4270232.29	UCART1	10.67
366	637046.16	4270232.29	UCART1	10.67
367	637086.16	4270232.29	UCART1	10.67
368	637126.16	4270232.29	UCART1	10.67
369	637166.16	4270232.29	UCART1	10.48
370	637206.16	4270232.29	UCART1	10.38
371	637246.16	4270232.29	UCART1	10.00
372	637566.16	4270232.29	UCART1	10.36

373	637606.16	4270232.29	UCART1	10.36
374	637686.16	4270232.29	UCART1	10.36
375	637726.16	4270232.29	UCART1	10.14
376	637766.16	4270232.29	UCART1	9.73
377	637806.16	4270232.29	UCART1	9.40
378	637886.16	4270232.29	UCART1	9.14
379	637926.16	4270232.29	UCART1	9.14
380	637966.16	4270232.29	UCART1	9.37
381	638006.16	4270232.29	UCART1	10.33
382	638046.16	4270232.29	UCART1	10.47
383	633086.16	4270272.29	UCART1	6.37
384	633126.16	4270272.29	UCART1	6.50
385	633166.16	4270272.29	UCART1	6.70
386	633206.16	4270272.29	UCART1	6.71
387	633486.16	4270272.29	UCART1	7.01
388	636286.16	4270272.29	UCART1	10.05
389	636326.16	4270272.29	UCART1	10.36
390	636366.16	4270272.29	UCART1	10.36
391	636406.16	4270272.29	UCART1	10.59
392	636446.16	4270272.29	UCART1	10.67
393	636566.16	4270272.29	UCART1	10.67
394	636606.16	4270272.29	UCART1	10.67
395	636646.16	4270272.29	UCART1	10.67
396	636686.16	4270272.29	UCART1	10.67
397	636766.16	4270272.29	UCART1	10.67
398	636806.16	4270272.29	UCART1	10.67
399	636846.16	4270272.29	UCART1	10.67
400	636886.16	4270272.29	UCART1	10.67
401	636926.16	4270272.29	UCART1	10.67
402	636966.16	4270272.29	UCART1	10.67
403	637046.16	4270272.29	UCART1	10.67
404	637166.16	4270272.29	UCART1	10.32
405	637206.16	4270272.29	UCART1	9.70
406	637246.16	4270272.29	UCART1	9.33
407	637566.16	4270272.29	UCART1	10.53
408	637606.16	4270272.29	UCART1	10.36
409	637646.16	4270272.29	UCART1	10.36
410	637726.16	4270272.29	UCART1	10.07

411	637766.16	4270272.29	UCART1	9.75
412	637806.16	4270272.29	UCART1	9.61
413	637846.16	4270272.29	UCART1	9.43
414	637926.16	4270272.29	UCART1	9.14
415	637966.16	4270272.29	UCART1	9.16
416	638006.16	4270272.29	UCART1	9.82
417	638046.16	4270272.29	UCART1	10.49
418	638086.16	4270272.29	UCART1	11.07
419	638126.16	4270272.29	UCART1	10.93
420	633086.16	4270312.29	UCART1	6.42
421	633126.16	4270312.29	UCART1	6.77
422	633166.16	4270312.29	UCART1	7.03
423	633206.16	4270312.29	UCART1	7.08
424	633246.16	4270312.29	UCART1	6.92
425	636286.16	4270312.29	UCART1	10.28
426	636366.16	4270312.29	UCART1	10.67
427	636446.16	4270312.29	UCART1	10.67
428	636566.16	4270312.29	UCART1	10.67
429	636606.16	4270312.29	UCART1	10.67
430	636646.16	4270312.29	UCART1	10.67
431	636686.16	4270312.29	UCART1	10.67
432	636766.16	4270312.29	UCART1	10.67
433	636806.16	4270312.29	UCART1	10.66
434	636846.16	4270312.29	UCART1	10.59
435	636886.16	4270312.29	UCART1	10.42
436	636926.16	4270312.29	UCART1	10.36
437	637006.16	4270312.29	UCART1	10.59
438	637046.16	4270312.29	UCART1	10.67
439	637086.16	4270312.29	UCART1	10.64
440	637126.16	4270312.29	UCART1	10.37
441	637166.16	4270312.29	UCART1	10.52
442	637566.16	4270312.29	UCART1	10.54
443	637606.16	4270312.29	UCART1	10.42
444	637646.16	4270312.29	UCART1	10.36
445	637686.16	4270312.29	UCART1	10.24
446	637766.16	4270312.29	UCART1	9.75
447	637806.16	4270312.29	UCART1	9.66
448	637846.16	4270312.29	UCART1	9.47

449	637886.16	4270312.29	UCART1	9.43
450	637966.16	4270312.29	UCART1	9.14
451	638006.16	4270312.29	UCART1	9.46
452	638046.16	4270312.29	UCART1	10.79
453	638086.16	4270312.29	UCART1	11.37
454	638126.16	4270312.29	UCART1	11.35
455	638166.16	4270312.29	UCART1	11.23
456	638206.16	4270312.29	UCART1	11.05
457	638246.16	4270312.29	UCART1	11.05
458	633086.16	4270352.29	UCART1	6.44
459	633126.16	4270352.29	UCART1	7.06
460	633166.16	4270352.29	UCART1	7.32
461	633206.16	4270352.29	UCART1	7.47
462	633246.16	4270352.29	UCART1	7.19
463	636286.16	4270352.29	UCART1	10.28
464	636366.16	4270352.29	UCART1	10.67
465	636446.16	4270352.29	UCART1	10.67
466	636566.16	4270352.29	UCART1	10.67
467	636606.16	4270352.29	UCART1	10.67
468	636646.16	4270352.29	UCART1	10.67
469	636686.16	4270352.29	UCART1	10.67
470	636726.16	4270352.29	UCART1	10.67
471	636766.16	4270352.29	UCART1	10.67
472	636846.16	4270352.29	UCART1	10.36
473	636886.16	4270352.29	UCART1	10.36
474	636926.16	4270352.29	UCART1	10.36
475	637006.16	4270352.29	UCART1	10.59
476	637046.16	4270352.29	UCART1	10.67
477	637086.16	4270352.29	UCART1	10.54
478	637126.16	4270352.29	UCART1	10.14
479	637166.16	4270352.29	UCART1	10.07
480	637606.16	4270352.29	UCART1	10.63
481	637646.16	4270352.29	UCART1	10.53
482	637686.16	4270352.29	UCART1	10.31
483	637886.16	4270352.29	UCART1	9.45
484	637926.16	4270352.29	UCART1	9.40
485	638046.16	4270352.29	UCART1	10.10
486	638086.16	4270352.29	UCART1	11.83

487	638126.16	4270352.29	UCART1	11.92
488	638166.16	4270352.29	UCART1	11.71
489	638206.16	4270352.29	UCART1	11.63
490	638246.16	4270352.29	UCART1	11.60
491	633086.16	4270392.29	UCART1	6.47
492	636286.16	4270392.29	UCART1	10.28
493	636366.16	4270392.29	UCART1	10.67
494	636406.16	4270392.29	UCART1	10.67
495	636446.16	4270392.29	UCART1	10.67
496	636526.16	4270392.29	UCART1	10.67
497	636646.16	4270392.29	UCART1	10.67
498	636686.16	4270392.29	UCART1	10.67
499	636726.16	4270392.29	UCART1	10.67
500	636766.16	4270392.29	UCART1	10.67
501	636846.16	4270392.29	UCART1	10.25
502	636886.16	4270392.29	UCART1	10.09
503	636966.16	4270392.29	UCART1	10.48
504	637006.16	4270392.29	UCART1	10.66
505	637046.16	4270392.29	UCART1	10.65
506	637086.16	4270392.29	UCART1	10.38
507	637166.16	4270392.29	UCART1	10.06
508	637206.16	4270392.29	UCART1	10.15
509	637606.16	4270392.29	UCART1	10.67
510	637646.16	4270392.29	UCART1	10.65
511	637686.16	4270392.29	UCART1	10.36
512	637726.16	4270392.29	UCART1	10.14
513	637926.16	4270392.29	UCART1	9.73
514	637966.16	4270392.29	UCART1	9.93
515	638006.16	4270392.29	UCART1	9.98
516	638086.16	4270392.29	UCART1	10.76
517	638126.16	4270392.29	UCART1	11.93
518	638166.16	4270392.29	UCART1	12.17
519	638206.16	4270392.29	UCART1	12.17
520	638246.16	4270392.29	UCART1	11.86
521	633886.16	4270432.29	UCART1	7.01
522	633926.16	4270432.29	UCART1	7.24
523	636286.16	4270432.29	UCART1	10.28
524	636326.16	4270432.29	UCART1	10.67

525	636366.16	4270432.29	UCART1	10.67
526	636406.16	4270432.29	UCART1	10.67
527	636446.16	4270432.29	UCART1	10.65
528	636526.16	4270432.29	UCART1	10.36
529	636606.16	4270432.29	UCART1	10.67
530	636646.16	4270432.29	UCART1	10.67
531	636766.16	4270432.29	UCART1	10.44
532	636846.16	4270432.29	UCART1	10.06
533	636886.16	4270432.29	UCART1	10.06
534	636926.16	4270432.29	UCART1	10.29
535	636966.16	4270432.29	UCART1	10.49
536	637006.16	4270432.29	UCART1	10.67
537	637046.16	4270432.29	UCART1	10.67
538	637126.16	4270432.29	UCART1	10.21
539	637166.16	4270432.29	UCART1	10.37
540	637206.16	4270432.29	UCART1	10.53
541	637606.16	4270432.29	UCART1	10.61
542	637646.16	4270432.29	UCART1	10.58
543	637686.16	4270432.29	UCART1	10.36
544	637726.16	4270432.29	UCART1	10.19
545	637766.16	4270432.29	UCART1	10.06
546	637966.16	4270432.29	UCART1	10.61
547	638006.16	4270432.29	UCART1	10.86
548	638046.16	4270432.29	UCART1	10.53
549	638086.16	4270432.29	UCART1	10.67
550	638166.16	4270432.29	UCART1	11.17
551	638206.16	4270432.29	UCART1	11.84
552	638246.16	4270432.29	UCART1	12.04
553	638286.16	4270432.29	UCART1	11.03
554	633766.16	4270472.29	UCART1	7.04
555	633806.16	4270472.29	UCART1	7.01
556	633846.16	4270472.29	UCART1	7.01
557	633886.16	4270472.29	UCART1	7.01
558	633926.16	4270472.29	UCART1	7.01
559	636206.16	4270472.29	UCART1	9.47
560	636526.16	4270472.29	UCART1	10.36
561	636606.16	4270472.29	UCART1	10.67
562	636646.16	4270472.29	UCART1	10.67

563	636686.16	4270472.29	UCART1	10.67
564	636726.16	4270472.29	UCART1	10.60
565	636766.16	4270472.29	UCART1	10.40
566	636926.16	4270472.29	UCART1	10.24
567	636966.16	4270472.29	UCART1	10.49
568	637006.16	4270472.29	UCART1	10.67
569	637046.16	4270472.29	UCART1	10.67
570	637126.16	4270472.29	UCART1	10.53
571	637166.16	4270472.29	UCART1	10.55
572	637206.16	4270472.29	UCART1	10.67
573	637606.16	4270472.29	UCART1	10.00
574	637646.16	4270472.29	UCART1	10.36
575	637686.16	4270472.29	UCART1	10.36
576	637726.16	4270472.29	UCART1	10.36
577	637766.16	4270472.29	UCART1	10.06
578	637886.16	4270472.29	UCART1	10.26
579	637926.16	4270472.29	UCART1	10.59
580	637966.16	4270472.29	UCART1	10.67
581	638046.16	4270472.29	UCART1	10.67
582	638086.16	4270472.29	UCART1	10.67
583	638126.16	4270472.29	UCART1	10.67
584	638166.16	4270472.29	UCART1	10.72
585	633686.16	4270512.29	UCART1	7.32
586	633726.16	4270512.29	UCART1	7.19
587	633766.16	4270512.29	UCART1	7.01
588	633806.16	4270512.29	UCART1	7.01
589	633846.16	4270512.29	UCART1	7.01
590	633886.16	4270512.29	UCART1	7.01
591	633926.16	4270512.29	UCART1	7.01
592	636206.16	4270512.29	UCART1	9.47
593	636286.16	4270512.29	UCART1	10.58
594	636326.16	4270512.29	UCART1	10.67
595	636366.16	4270512.29	UCART1	10.78
596	636406.16	4270512.29	UCART1	10.74
597	636526.16	4270512.29	UCART1	10.29
598	636566.16	4270512.29	UCART1	10.39
599	636606.16	4270512.29	UCART1	10.67
600	636646.16	4270512.29	UCART1	10.67

601	636686.16	4270512.29	UCART1	10.67
602	636726.16	4270512.29	UCART1	10.54
603	636766.16	4270512.29	UCART1	10.16
604	636806.16	4270512.29	UCART1	10.06
605	636846.16	4270512.29	UCART1	10.06
606	637006.16	4270512.29	UCART1	10.67
607	637046.16	4270512.29	UCART1	10.65
608	637086.16	4270512.29	UCART1	10.49
609	637126.16	4270512.29	UCART1	10.66
610	637166.16	4270512.29	UCART1	10.67
611	637206.16	4270512.29	UCART1	10.67
612	637646.16	4270512.29	UCART1	10.62
613	637686.16	4270512.29	UCART1	10.36
614	637726.16	4270512.29	UCART1	10.36
615	637766.16	4270512.29	UCART1	10.34
616	637806.16	4270512.29	UCART1	10.34
617	637966.16	4270512.29	UCART1	10.67
618	638006.16	4270512.29	UCART1	10.67
619	638046.16	4270512.29	UCART1	10.67
620	638126.16	4270512.29	UCART1	10.67
621	633646.16	4270552.29	UCART1	7.32
622	633686.16	4270552.29	UCART1	7.32
623	633726.16	4270552.29	UCART1	7.22
624	633766.16	4270552.29	UCART1	7.03
625	633806.16	4270552.29	UCART1	7.01
626	633846.16	4270552.29	UCART1	7.01
627	633886.16	4270552.29	UCART1	6.96
628	633926.16	4270552.29	UCART1	6.94
629	636206.16	4270552.29	UCART1	9.56
630	636286.16	4270552.29	UCART1	10.53
631	636326.16	4270552.29	UCART1	10.67
632	636366.16	4270552.29	UCART1	10.70
633	636406.16	4270552.29	UCART1	10.63
634	636526.16	4270552.29	UCART1	10.28
635	636606.16	4270552.29	UCART1	10.64
636	636646.16	4270552.29	UCART1	10.48
637	636686.16	4270552.29	UCART1	10.14
638	636726.16	4270552.29	UCART1	10.12

639	636806.16	4270552.29	UCART1	10.06
640	636846.16	4270552.29	UCART1	10.06
641	636886.16	4270552.29	UCART1	10.23
642	636926.16	4270552.29	UCART1	10.36
643	637086.16	4270552.29	UCART1	10.67
644	637126.16	4270552.29	UCART1	10.67
645	637166.16	4270552.29	UCART1	10.36
646	637206.16	4270552.29	UCART1	10.49
647	637646.16	4270552.29	UCART1	10.60
648	637686.16	4270552.29	UCART1	10.57
649	637726.16	4270552.29	UCART1	10.44
650	637766.16	4270552.29	UCART1	10.44
651	637806.16	4270552.29	UCART1	10.44
652	637846.16	4270552.29	UCART1	10.44
653	638006.16	4270552.29	UCART1	10.67
654	638046.16	4270552.29	UCART1	10.67
655	638086.16	4270552.29	UCART1	10.67
656	633406.16	4270592.29	UCART1	7.32
657	633446.16	4270592.29	UCART1	7.50
658	633646.16	4270592.29	UCART1	7.36
659	633686.16	4270592.29	UCART1	7.32
660	633726.16	4270592.29	UCART1	7.32
661	633766.16	4270592.29	UCART1	7.09
662	633806.16	4270592.29	UCART1	7.01
663	633846.16	4270592.29	UCART1	6.94
664	633886.16	4270592.29	UCART1	6.74
665	633926.16	4270592.29	UCART1	6.71
666	636206.16	4270592.29	UCART1	9.94
667	636286.16	4270592.29	UCART1	10.59
668	636326.16	4270592.29	UCART1	10.67
669	636366.16	4270592.29	UCART1	10.72
670	636406.16	4270592.29	UCART1	10.48
671	636486.16	4270592.29	UCART1	10.13
672	636526.16	4270592.29	UCART1	10.33
673	636606.16	4270592.29	UCART1	10.12
674	636646.16	4270592.29	UCART1	9.51
675	636686.16	4270592.29	UCART1	9.28
676	636766.16	4270592.29	UCART1	9.71

677	636806.16	4270592.29	UCART1	9.89
678	636886.16	4270592.29	UCART1	10.06
679	636966.16	4270592.29	UCART1	10.26
680	637006.16	4270592.29	UCART1	10.36
681	637086.16	4270592.29	UCART1	10.60
682	637166.16	4270592.29	UCART1	10.36
683	637206.16	4270592.29	UCART1	10.49
684	637646.16	4270592.29	UCART1	10.05
685	637686.16	4270592.29	UCART1	10.56
686	637726.16	4270592.29	UCART1	10.67
687	637766.16	4270592.29	UCART1	10.67
688	637806.16	4270592.29	UCART1	10.67
689	637846.16	4270592.29	UCART1	10.67
690	633366.16	4270632.29	UCART1	7.32
691	633406.16	4270632.29	UCART1	7.32
692	633446.16	4270632.29	UCART1	7.36
693	633646.16	4270632.29	UCART1	7.39
694	633686.16	4270632.29	UCART1	7.32
695	633726.16	4270632.29	UCART1	7.20
696	633766.16	4270632.29	UCART1	7.02
697	633806.16	4270632.29	UCART1	6.99
698	633846.16	4270632.29	UCART1	6.72
699	633886.16	4270632.29	UCART1	6.71
700	633926.16	4270632.29	UCART1	6.71
701	636206.16	4270632.29	UCART1	10.08
702	636486.16	4270632.29	UCART1	10.35
703	636526.16	4270632.29	UCART1	10.57
704	636566.16	4270632.29	UCART1	10.05
705	636606.16	4270632.29	UCART1	9.20
706	636646.16	4270632.29	UCART1	9.15
707	636726.16	4270632.29	UCART1	9.15
708	636766.16	4270632.29	UCART1	9.40
709	636846.16	4270632.29	UCART1	9.78
710	636886.16	4270632.29	UCART1	9.78
711	636966.16	4270632.29	UCART1	10.07
712	637046.16	4270632.29	UCART1	10.09
713	637086.16	4270632.29	UCART1	10.10
714	637126.16	4270632.29	UCART1	10.09

715	637166.16	4270632.29	UCART1	10.11
716	637646.16	4270632.29	UCART1	9.50
717	637686.16	4270632.29	UCART1	9.93
718	637726.16	4270632.29	UCART1	10.32
719	637766.16	4270632.29	UCART1	10.39
720	637806.16	4270632.29	UCART1	10.39
721	637846.16	4270632.29	UCART1	10.60
722	637886.16	4270632.29	UCART1	10.67
723	633406.16	4270672.29	UCART1	7.32
724	633446.16	4270672.29	UCART1	7.34
725	633646.16	4270672.29	UCART1	7.39
726	633686.16	4270672.29	UCART1	7.32
727	633726.16	4270672.29	UCART1	7.19
728	633766.16	4270672.29	UCART1	7.01
729	633806.16	4270672.29	UCART1	6.92
730	633846.16	4270672.29	UCART1	6.68
731	633886.16	4270672.29	UCART1	6.63
732	633926.16	4270672.29	UCART1	6.40
733	636206.16	4270672.29	UCART1	10.45
734	636486.16	4270672.29	UCART1	10.18
735	636526.16	4270672.29	UCART1	9.34
736	636566.16	4270672.29	UCART1	9.14
737	636686.16	4270672.29	UCART1	9.14
738	636726.16	4270672.29	UCART1	9.14
739	636806.16	4270672.29	UCART1	9.47
740	636846.16	4270672.29	UCART1	9.71
741	636926.16	4270672.29	UCART1	9.75
742	636966.16	4270672.29	UCART1	9.75
743	637046.16	4270672.29	UCART1	9.75
744	637086.16	4270672.29	UCART1	9.72
745	637126.16	4270672.29	UCART1	9.68
746	637166.16	4270672.29	UCART1	9.70
747	637206.16	4270672.29	UCART1	9.98
748	637246.16	4270672.29	UCART1	10.10
749	637686.16	4270672.29	UCART1	9.57
750	637726.16	4270672.29	UCART1	9.92
751	637766.16	4270672.29	UCART1	10.08
752	637806.16	4270672.29	UCART1	10.32

753	637846.16	4270672.29	UCART1	10.36
754	637886.16	4270672.29	UCART1	10.67
755	637926.16	4270672.29	UCART1	10.67
756	633446.16	4270712.29	UCART1	7.32
757	633486.16	4270712.29	UCART1	7.52
758	633686.16	4270712.29	UCART1	7.32
759	633726.16	4270712.29	UCART1	7.19
760	633766.16	4270712.29	UCART1	6.88
761	633806.16	4270712.29	UCART1	6.69
762	636206.16	4270712.29	UCART1	10.67
763	636486.16	4270712.29	UCART1	9.27
764	636526.16	4270712.29	UCART1	9.18
765	636566.16	4270712.29	UCART1	9.14
766	636606.16	4270712.29	UCART1	9.14
767	636686.16	4270712.29	UCART1	9.14
768	636766.16	4270712.29	UCART1	9.37
769	636806.16	4270712.29	UCART1	9.45
770	636886.16	4270712.29	UCART1	9.58
771	636926.16	4270712.29	UCART1	9.58
772	637006.16	4270712.29	UCART1	9.58
773	637046.16	4270712.29	UCART1	9.58
774	637086.16	4270712.29	UCART1	9.52
775	637126.16	4270712.29	UCART1	9.45
776	637206.16	4270712.29	UCART1	9.40
777	637246.16	4270712.29	UCART1	9.18
778	637686.16	4270712.29	UCART1	9.57
779	637726.16	4270712.29	UCART1	9.75
780	637766.16	4270712.29	UCART1	10.07
781	637806.16	4270712.29	UCART1	10.29
782	637846.16	4270712.29	UCART1	10.36
783	633326.16	4270752.29	UCART1	7.01
784	633366.16	4270752.29	UCART1	7.13
785	633406.16	4270752.29	UCART1	7.32
786	633446.16	4270752.29	UCART1	7.32
787	633486.16	4270752.29	UCART1	7.44
788	633686.16	4270752.29	UCART1	7.32
789	633726.16	4270752.29	UCART1	7.19
790	633766.16	4270752.29	UCART1	6.78

791	636206.16	4270752.29	UCART1	10.39
792	636486.16	4270752.29	UCART1	9.14
793	636526.16	4270752.29	UCART1	9.14
794	636566.16	4270752.29	UCART1	9.14
795	636606.16	4270752.29	UCART1	9.14
796	636646.16	4270752.29	UCART1	9.14
797	636686.16	4270752.29	UCART1	9.14
798	636726.16	4270752.29	UCART1	9.14
799	636766.16	4270752.29	UCART1	9.37
800	636846.16	4270752.29	UCART1	9.45
801	636886.16	4270752.29	UCART1	9.45
802	636966.16	4270752.29	UCART1	9.45
803	637006.16	4270752.29	UCART1	9.45
804	637046.16	4270752.29	UCART1	9.45
805	637086.16	4270752.29	UCART1	9.45
806	637126.16	4270752.29	UCART1	9.45
807	637166.16	4270752.29	UCART1	9.15
808	637246.16	4270752.29	UCART1	8.64
809	637686.16	4270752.29	UCART1	9.57
810	637726.16	4270752.29	UCART1	9.96
811	637766.16	4270752.29	UCART1	10.08
812	633326.16	4270792.29	UCART1	7.01
813	633366.16	4270792.29	UCART1	7.13
814	633406.16	4270792.29	UCART1	7.32
815	633446.16	4270792.29	UCART1	7.32
816	633486.16	4270792.29	UCART1	7.32
817	633526.16	4270792.29	UCART1	7.54
818	633686.16	4270792.29	UCART1	7.30
819	633726.16	4270792.29	UCART1	7.05
820	633766.16	4270792.29	UCART1	6.78
821	636206.16	4270792.29	UCART1	9.61
822	636446.16	4270792.29	UCART1	9.14
823	636486.16	4270792.29	UCART1	9.14
824	636526.16	4270792.29	UCART1	9.14
825	636566.16	4270792.29	UCART1	9.14
826	636606.16	4270792.29	UCART1	9.14
827	636646.16	4270792.29	UCART1	9.14
828	636686.16	4270792.29	UCART1	9.14

829	636726.16	4270792.29	UCART1	9.14
830	636806.16	4270792.29	UCART1	9.45
831	636846.16	4270792.29	UCART1	9.45
832	636926.16	4270792.29	UCART1	9.45
833	636966.16	4270792.29	UCART1	9.45
834	637006.16	4270792.29	UCART1	9.45
835	637046.16	4270792.29	UCART1	9.45
836	637086.16	4270792.29	UCART1	9.45
837	637166.16	4270792.29	UCART1	9.05
838	637246.16	4270792.29	UCART1	8.31
839	637286.16	4270792.29	UCART1	7.92
840	637726.16	4270792.29	UCART1	10.03
841	637766.16	4270792.29	UCART1	10.37
842	638086.16	4270792.29	UCART1	10.67
843	638126.16	4270792.29	UCART1	10.67
844	638206.16	4270792.29	UCART1	10.67
845	638246.16	4270792.29	UCART1	10.67
846	638286.16	4270792.29	UCART1	10.67
847	638326.16	4270792.29	UCART1	10.67
848	638366.16	4270792.29	UCART1	10.67
849	633326.16	4270832.29	UCART1	7.01
850	633366.16	4270832.29	UCART1	7.13
851	633406.16	4270832.29	UCART1	7.32
852	633446.16	4270832.29	UCART1	7.32
853	633486.16	4270832.29	UCART1	7.32
854	633526.16	4270832.29	UCART1	7.54
855	633726.16	4270832.29	UCART1	7.19
856	633766.16	4270832.29	UCART1	6.78
857	636206.16	4270832.29	UCART1	9.15
858	636446.16	4270832.29	UCART1	9.14
859	636486.16	4270832.29	UCART1	9.14
860	636526.16	4270832.29	UCART1	9.14
861	636566.16	4270832.29	UCART1	9.14
862	636606.16	4270832.29	UCART1	9.14
863	636646.16	4270832.29	UCART1	9.14
864	636686.16	4270832.29	UCART1	9.14
865	636766.16	4270832.29	UCART1	9.37
866	636806.16	4270832.29	UCART1	9.45

867	636886.16	4270832.29	UCART1	9.45
868	636926.16	4270832.29	UCART1	9.45
869	636966.16	4270832.29	UCART1	9.45
870	637006.16	4270832.29	UCART1	9.45
871	637046.16	4270832.29	UCART1	9.45
872	637086.16	4270832.29	UCART1	9.38
873	637126.16	4270832.29	UCART1	9.18
874	637166.16	4270832.29	UCART1	8.84
875	637246.16	4270832.29	UCART1	8.31
876	637286.16	4270832.29	UCART1	8.09
877	637726.16	4270832.29	UCART1	10.25
878	637766.16	4270832.29	UCART1	10.55
879	637806.16	4270832.29	UCART1	10.60
880	638086.16	4270832.29	UCART1	10.67
881	638126.16	4270832.29	UCART1	10.67
882	638206.16	4270832.29	UCART1	10.67
883	638246.16	4270832.29	UCART1	10.67
884	638286.16	4270832.29	UCART1	10.67
885	638326.16	4270832.29	UCART1	10.67
886	638366.16	4270832.29	UCART1	10.67
887	633326.16	4270872.29	UCART1	7.01
888	633366.16	4270872.29	UCART1	7.13
889	633406.16	4270872.29	UCART1	7.32
890	633446.16	4270872.29	UCART1	7.32
891	633486.16	4270872.29	UCART1	7.32
892	633526.16	4270872.29	UCART1	7.54
893	633726.16	4270872.29	UCART1	7.19
894	633766.16	4270872.29	UCART1	6.78
895	633806.16	4270872.29	UCART1	6.38
896	636406.16	4270872.29	UCART1	9.28
897	636446.16	4270872.29	UCART1	9.40
898	636486.16	4270872.29	UCART1	9.14
899	636526.16	4270872.29	UCART1	9.14
900	636566.16	4270872.29	UCART1	9.14
901	636606.16	4270872.29	UCART1	9.14
902	636646.16	4270872.29	UCART1	9.14
903	636686.16	4270872.29	UCART1	9.14
904	636726.16	4270872.29	UCART1	9.14

905	636846.16	4270872.29	UCART1	9.45
906	636886.16	4270872.29	UCART1	9.45
907	636926.16	4270872.29	UCART1	9.45
908	636966.16	4270872.29	UCART1	9.45
909	637006.16	4270872.29	UCART1	9.45
910	637046.16	4270872.29	UCART1	9.43
911	637086.16	4270872.29	UCART1	9.16
912	637126.16	4270872.29	UCART1	9.14
913	637166.16	4270872.29	UCART1	8.84
914	637246.16	4270872.29	UCART1	8.51
915	637286.16	4270872.29	UCART1	8.21
916	637726.16	4270872.29	UCART1	10.28
917	637766.16	4270872.29	UCART1	10.65
918	637806.16	4270872.29	UCART1	10.38
919	637966.16	4270872.29	UCART1	10.36
920	638006.16	4270872.29	UCART1	10.67
921	638086.16	4270872.29	UCART1	10.67
922	638126.16	4270872.29	UCART1	10.67
923	638206.16	4270872.29	UCART1	10.67
924	638246.16	4270872.29	UCART1	10.67
925	638286.16	4270872.29	UCART1	10.67
926	638326.16	4270872.29	UCART1	10.67
927	638366.16	4270872.29	UCART1	10.67
928	633366.16	4270912.29	UCART1	7.13
929	633406.16	4270912.29	UCART1	7.32
930	633446.16	4270912.29	UCART1	7.32
931	633486.16	4270912.29	UCART1	7.32
932	633526.16	4270912.29	UCART1	7.32
933	633566.16	4270912.29	UCART1	7.62
934	633726.16	4270912.29	UCART1	7.22
935	633766.16	4270912.29	UCART1	7.03
936	633806.16	4270912.29	UCART1	6.68
937	636206.16	4270912.29	UCART1	7.64
938	636446.16	4270912.29	UCART1	9.36
939	636486.16	4270912.29	UCART1	9.14
940	636526.16	4270912.29	UCART1	9.14
941	636566.16	4270912.29	UCART1	9.14
942	636606.16	4270912.29	UCART1	9.14

943	636646.16	4270912.29	UCART1	9.14
944	636686.16	4270912.29	UCART1	9.14
945	636726.16	4270912.29	UCART1	9.14
946	636766.16	4270912.29	UCART1	9.37
947	636846.16	4270912.29	UCART1	9.45
948	636886.16	4270912.29	UCART1	9.45
949	636926.16	4270912.29	UCART1	9.45
950	636966.16	4270912.29	UCART1	9.45
951	637006.16	4270912.29	UCART1	9.39
952	637046.16	4270912.29	UCART1	9.14
953	637086.16	4270912.29	UCART1	9.14
954	637126.16	4270912.29	UCART1	8.92
955	637206.16	4270912.29	UCART1	8.72
956	637246.16	4270912.29	UCART1	8.53
957	637286.16	4270912.29	UCART1	8.28
958	637726.16	4270912.29	UCART1	10.43
959	637766.16	4270912.29	UCART1	10.27
960	637806.16	4270912.29	UCART1	9.98
961	637846.16	4270912.29	UCART1	10.04
962	637966.16	4270912.29	UCART1	10.36
963	638006.16	4270912.29	UCART1	10.67
964	638086.16	4270912.29	UCART1	10.67
965	638126.16	4270912.29	UCART1	10.67
966	638206.16	4270912.29	UCART1	10.67
967	638246.16	4270912.29	UCART1	10.67
968	638286.16	4270912.29	UCART1	10.67
969	638326.16	4270912.29	UCART1	10.67
970	638366.16	4270912.29	UCART1	10.67
971	633366.16	4270952.29	UCART1	7.24
972	633406.16	4270952.29	UCART1	7.32
973	633446.16	4270952.29	UCART1	7.32
974	633486.16	4270952.29	UCART1	7.32
975	633526.16	4270952.29	UCART1	7.32
976	633566.16	4270952.29	UCART1	7.62
977	633766.16	4270952.29	UCART1	7.09
978	633806.16	4270952.29	UCART1	6.86
979	636206.16	4270952.29	UCART1	7.80
980	636406.16	4270952.29	UCART1	9.45

981	636446.16	4270952.29	UCART1	9.14
982	636486.16	4270952.29	UCART1	9.14
983	636526.16	4270952.29	UCART1	9.14
984	636566.16	4270952.29	UCART1	9.14
985	636606.16	4270952.29	UCART1	9.14
986	636646.16	4270952.29	UCART1	9.14
987	636686.16	4270952.29	UCART1	9.14
988	636726.16	4270952.29	UCART1	9.14
989	636766.16	4270952.29	UCART1	9.37
990	636806.16	4270952.29	UCART1	9.45
991	636886.16	4270952.29	UCART1	9.45
992	636926.16	4270952.29	UCART1	9.45
993	636966.16	4270952.29	UCART1	9.45
994	637006.16	4270952.29	UCART1	9.22
995	637046.16	4270952.29	UCART1	9.14
996	637086.16	4270952.29	UCART1	9.14
997	637126.16	4270952.29	UCART1	9.05
998	637166.16	4270952.29	UCART1	8.84
999	637206.16	4270952.29	UCART1	8.79
1,000	637246.16	4270952.29	UCART1	8.58
1,001	637286.16	4270952.29	UCART1	8.53
1,002	637726.16	4270952.29	UCART1	9.90
1,003	637766.16	4270952.29	UCART1	9.87
1,004	637806.16	4270952.29	UCART1	9.75
1,005	637846.16	4270952.29	UCART1	9.85
1,006	637966.16	4270952.29	UCART1	10.36
1,007	638006.16	4270952.29	UCART1	10.67
1,008	638086.16	4270952.29	UCART1	10.67
1,009	638126.16	4270952.29	UCART1	10.67
1,010	638166.16	4270952.29	UCART1	10.67
1,011	638206.16	4270952.29	UCART1	10.67
1,012	638246.16	4270952.29	UCART1	10.67
1,013	638326.16	4270952.29	UCART1	10.67
1,014	638366.16	4270952.29	UCART1	10.67
1,015	633366.16	4270992.29	UCART1	7.32
1,016	633406.16	4270992.29	UCART1	7.32
1,017	633446.16	4270992.29	UCART1	7.32
1,018	633486.16	4270992.29	UCART1	7.32

1,019	633526.16	4270992.29	UCART1	7.32
1,020	633566.16	4270992.29	UCART1	7.62
1,021	633766.16	4270992.29	UCART1	7.30
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1,023	633846.16	4270992.29	UCART1	6.87
1,024	634246.16	4270992.29	UCART1	6.38
1,025	634286.16	4270992.29	UCART1	6.37
1,026	634326.16	4270992.29	UCART1	6.38
1,027	634366.16	4270992.29	UCART1	6.40
1,028	634446.16	4270992.29	UCART1	6.12
1,029	634486.16	4270992.29	UCART1	6.10
1,030	634526.16	4270992.29	UCART1	6.10
1,031	634566.16	4270992.29	UCART1	6.12
1,032	634606.16	4270992.29	UCART1	6.33
1,033	634646.16	4270992.29	UCART1	6.40
1,034	634686.16	4270992.29	UCART1	6.52
1,035	634726.16	4270992.29	UCART1	6.71
1,036	634806.16	4270992.29	UCART1	7.01
1,037	634846.16	4270992.29	UCART1	7.01
1,038	634886.16	4270992.29	UCART1	7.01
1,039	634926.16	4270992.29	UCART1	7.15
1,040	634966.16	4270992.29	UCART1	7.32
1,041	636206.16	4270992.29	UCART1	8.22
1,042	636246.16	4270992.29	UCART1	8.60
1,043	636366.16	4270992.29	UCART1	9.28
1,044	636406.16	4270992.29	UCART1	9.45
1,045	636446.16	4270992.29	UCART1	9.14
1,046	636486.16	4270992.29	UCART1	9.14
1,047	636526.16	4270992.29	UCART1	9.14
1,048	636566.16	4270992.29	UCART1	9.14
1,049	636606.16	4270992.29	UCART1	9.14
1,050	636646.16	4270992.29	UCART1	9.14
1,051	636686.16	4270992.29	UCART1	9.14
1,052	636726.16	4270992.29	UCART1	9.26
1,053	636766.16	4270992.29	UCART1	9.44
1,054	636806.16	4270992.29	UCART1	9.45
1,055	636846.16	4270992.29	UCART1	9.45
1,056	636886.16	4270992.29	UCART1	9.45

1,057	636926.16	4270992.29	UCART1	9.45
1,058	636966.16	4270992.29	UCART1	9.45
1,059	637006.16	4270992.29	UCART1	9.43
1,060	637046.16	4270992.29	UCART1	9.14
1,061	637086.16	4270992.29	UCART1	9.14
1,062	637126.16	4270992.29	UCART1	9.14
1,063	637166.16	4270992.29	UCART1	9.10
1,064	637206.16	4270992.29	UCART1	8.84
1,065	637246.16	4270992.29	UCART1	8.82
1,066	637286.16	4270992.29	UCART1	8.79
1,067	637726.16	4270992.29	UCART1	9.26
1,068	637766.16	4270992.29	UCART1	9.48
1,069	637806.16	4270992.29	UCART1	9.48
1,070	637846.16	4270992.29	UCART1	9.68
1,071	637886.16	4270992.29	UCART1	9.80
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1,073	638086.16	4270992.29	UCART1	10.67
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1,075	638166.16	4270992.29	UCART1	10.67
1,076	638206.16	4270992.29	UCART1	10.67
1,077	638246.16	4270992.29	UCART1	10.67
1,078	638326.16	4270992.29	UCART1	10.67
1,079	638366.16	4270992.29	UCART1	10.67
1,080	633406.16	4271032.29	UCART1	7.32
1,081	633446.16	4271032.29	UCART1	7.32
1,082	633486.16	4271032.29	UCART1	7.32
1,083	633526.16	4271032.29	UCART1	7.32
1,084	633566.16	4271032.29	UCART1	7.55
1,085	633606.16	4271032.29	UCART1	7.62
1,086	633766.16	4271032.29	UCART1	7.33
1,087	633806.16	4271032.29	UCART1	7.08
1,088	633846.16	4271032.29	UCART1	7.01
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1,090	634166.16	4271032.29	UCART1	6.78
1,091	634206.16	4271032.29	UCART1	6.78
1,092	634246.16	4271032.29	UCART1	6.78
1,093	634286.16	4271032.29	UCART1	6.69
1,094	634366.16	4271032.29	UCART1	6.25

1,095	634406.16	4271032.29	UCART1	6.10
1,096	634446.16	4271032.29	UCART1	6.10
1,097	634486.16	4271032.29	UCART1	6.10
1,098	634566.16	4271032.29	UCART1	6.10
1,099	634606.16	4271032.29	UCART1	6.10
1,100	634646.16	4271032.29	UCART1	6.19
1,101	634726.16	4271032.29	UCART1	6.65
1,102	634766.16	4271032.29	UCART1	6.71
1,103	634806.16	4271032.29	UCART1	6.87
1,104	634846.16	4271032.29	UCART1	7.01
1,105	634886.16	4271032.29	UCART1	7.01
1,106	634926.16	4271032.29	UCART1	7.01
1,107	634966.16	4271032.29	UCART1	7.01
1,108	635046.16	4271032.29	UCART1	7.01
1,109	635086.16	4271032.29	UCART1	7.01
1,110	635686.16	4271032.29	UCART1	7.62
1,111	635726.16	4271032.29	UCART1	7.62
1,112	635766.16	4271032.29	UCART1	7.71
1,113	635806.16	4271032.29	UCART1	7.85
1,114	635846.16	4271032.29	UCART1	7.62
1,115	635886.16	4271032.29	UCART1	7.74
1,116	635926.16	4271032.29	UCART1	8.09
1,117	635966.16	4271032.29	UCART1	8.25
1,118	636006.16	4271032.29	UCART1	8.46
1,119	636046.16	4271032.29	UCART1	8.51
1,120	636086.16	4271032.29	UCART1	8.53
1,121	636126.16	4271032.29	UCART1	8.56
1,122	636166.16	4271032.29	UCART1	8.61
1,123	636206.16	4271032.29	UCART1	8.63
1,124	636366.16	4271032.29	UCART1	9.45
1,125	636406.16	4271032.29	UCART1	9.45
1,126	636446.16	4271032.29	UCART1	9.14
1,127	636486.16	4271032.29	UCART1	9.14
1,128	636526.16	4271032.29	UCART1	9.14
1,129	636566.16	4271032.29	UCART1	9.14
1,130	636606.16	4271032.29	UCART1	9.14
1,131	636646.16	4271032.29	UCART1	9.14
1,132	636686.16	4271032.29	UCART1	9.38

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1,134	636766.16	4271032.29	UCART1	9.45
1,135	636806.16	4271032.29	UCART1	9.45
1,136	636846.16	4271032.29	UCART1	9.45
1,137	636886.16	4271032.29	UCART1	9.45
1,138	636926.16	4271032.29	UCART1	9.45
1,139	636966.16	4271032.29	UCART1	9.45
1,140	637046.16	4271032.29	UCART1	9.43
1,141	637086.16	4271032.29	UCART1	9.19
1,142	637126.16	4271032.29	UCART1	9.14
1,143	637166.16	4271032.29	UCART1	9.14
1,144	637206.16	4271032.29	UCART1	9.05
1,145	637246.16	4271032.29	UCART1	8.91
1,146	637766.16	4271032.29	UCART1	8.79
1,147	637806.16	4271032.29	UCART1	9.19
1,148	637846.16	4271032.29	UCART1	9.60
1,149	637886.16	4271032.29	UCART1	9.77
1,150	637926.16	4271032.29	UCART1	10.01
1,151	637966.16	4271032.29	UCART1	10.28
1,152	638086.16	4271032.29	UCART1	10.72
1,153	638126.16	4271032.29	UCART1	10.97
1,154	638166.16	4271032.29	UCART1	10.97
1,155	638206.16	4271032.29	UCART1	10.92
1,156	638246.16	4271032.29	UCART1	10.67
1,157	638326.16	4271032.29	UCART1	10.59
1,158	638366.16	4271032.29	UCART1	10.57
1,159	633406.16	4271072.29	UCART1	7.32
1,160	633446.16	4271072.29	UCART1	7.32
1,161	633486.16	4271072.29	UCART1	7.32
1,162	633526.16	4271072.29	UCART1	7.32
1,163	633566.16	4271072.29	UCART1	7.34
1,164	633606.16	4271072.29	UCART1	7.62
1,165	633806.16	4271072.29	UCART1	7.29
1,166	633846.16	4271072.29	UCART1	7.01
1,167	634006.16	4271072.29	UCART1	7.01
1,168	634046.16	4271072.29	UCART1	7.01
1,169	634086.16	4271072.29	UCART1	7.01
1,170	634126.16	4271072.29	UCART1	7.01

1,171	634166.16	4271072.29	UCART1	7.01
1,172	634206.16	4271072.29	UCART1	7.01
1,173	634246.16	4271072.29	UCART1	7.01
1,174	634286.16	4271072.29	UCART1	6.88
1,175	634326.16	4271072.29	UCART1	6.81
1,176	634366.16	4271072.29	UCART1	6.61
1,177	634406.16	4271072.29	UCART1	6.27
1,178	634446.16	4271072.29	UCART1	6.27
1,179	634486.16	4271072.29	UCART1	6.27
1,180	634526.16	4271072.29	UCART1	6.10
1,181	634566.16	4271072.29	UCART1	6.10
1,182	634606.16	4271072.29	UCART1	6.23
1,183	634646.16	4271072.29	UCART1	6.41
1,184	634686.16	4271072.29	UCART1	6.63
1,185	634726.16	4271072.29	UCART1	6.71
1,186	634766.16	4271072.29	UCART1	6.89
1,187	634806.16	4271072.29	UCART1	7.01
1,188	634846.16	4271072.29	UCART1	7.01
1,189	634886.16	4271072.29	UCART1	7.01
1,190	634926.16	4271072.29	UCART1	7.01
1,191	634966.16	4271072.29	UCART1	7.01
1,192	635006.16	4271072.29	UCART1	7.01
1,193	635046.16	4271072.29	UCART1	7.01
1,194	635086.16	4271072.29	UCART1	7.01
1,195	635126.16	4271072.29	UCART1	7.01
1,196	635686.16	4271072.29	UCART1	7.62
1,197	635726.16	4271072.29	UCART1	7.62
1,198	635766.16	4271072.29	UCART1	7.62
1,199	635806.16	4271072.29	UCART1	7.62
1,200	635846.16	4271072.29	UCART1	7.62
1,201	635886.16	4271072.29	UCART1	7.74
1,202	635926.16	4271072.29	UCART1	7.92
1,203	635966.16	4271072.29	UCART1	8.23
1,204	636006.16	4271072.29	UCART1	8.23
1,205	636046.16	4271072.29	UCART1	8.46
1,206	636086.16	4271072.29	UCART1	8.55
1,207	636126.16	4271072.29	UCART1	8.76
1,208	636166.16	4271072.29	UCART1	8.84

1,209	636326.16	4271072.29	UCART1	9.45
1,210	636366.16	4271072.29	UCART1	9.45
1,211	636406.16	4271072.29	UCART1	9.45
1,212	636446.16	4271072.29	UCART1	9.14
1,213	636486.16	4271072.29	UCART1	9.14
1,214	636526.16	4271072.29	UCART1	9.14
1,215	636566.16	4271072.29	UCART1	9.14
1,216	636606.16	4271072.29	UCART1	9.14
1,217	636646.16	4271072.29	UCART1	9.14
1,218	636726.16	4271072.29	UCART1	9.34
1,219	636766.16	4271072.29	UCART1	9.45
1,220	636806.16	4271072.29	UCART1	9.45
1,221	636846.16	4271072.29	UCART1	9.45
1,222	636886.16	4271072.29	UCART1	9.32
1,223	637006.16	4271072.29	UCART1	9.45
1,224	637046.16	4271072.29	UCART1	9.45
1,225	637086.16	4271072.29	UCART1	9.40
1,226	637126.16	4271072.29	UCART1	9.19
1,227	637166.16	4271072.29	UCART1	9.14
1,228	637206.16	4271072.29	UCART1	9.14
1,229	637766.16	4271072.29	UCART1	8.39
1,230	637806.16	4271072.29	UCART1	8.96
1,231	637846.16	4271072.29	UCART1	9.37
1,232	637886.16	4271072.29	UCART1	9.59
1,233	637926.16	4271072.29	UCART1	9.88
1,234	637966.16	4271072.29	UCART1	10.28
1,235	638086.16	4271072.29	UCART1	10.76
1,236	638126.16	4271072.29	UCART1	10.80
1,237	638166.16	4271072.29	UCART1	10.80
1,238	638206.16	4271072.29	UCART1	10.70
1,239	638246.16	4271072.29	UCART1	10.66
1,240	638326.16	4271072.29	UCART1	10.23
1,241	638366.16	4271072.29	UCART1	10.14
1,242	633406.16	4271112.29	UCART1	7.32
1,243	633446.16	4271112.29	UCART1	7.32
1,244	633486.16	4271112.29	UCART1	7.32
1,245	633526.16	4271112.29	UCART1	7.32
1,246	633566.16	4271112.29	UCART1	7.34

1,247	633606.16	4271112.29	UCART1	7.62
1,248	633806.16	4271112.29	UCART1	7.31
1,249	633886.16	4271112.29	UCART1	7.01
1,250	633926.16	4271112.29	UCART1	7.01
1,251	633966.16	4271112.29	UCART1	7.01
1,252	634006.16	4271112.29	UCART1	7.01
1,253	634046.16	4271112.29	UCART1	7.03
1,254	634126.16	4271112.29	UCART1	7.29
1,255	634166.16	4271112.29	UCART1	7.29
1,256	634206.16	4271112.29	UCART1	7.29
1,257	634286.16	4271112.29	UCART1	7.27
1,258	634326.16	4271112.29	UCART1	7.00
1,259	634366.16	4271112.29	UCART1	6.98
1,260	634406.16	4271112.29	UCART1	6.68
1,261	634486.16	4271112.29	UCART1	6.68
1,262	634566.16	4271112.29	UCART1	6.37
1,263	634606.16	4271112.29	UCART1	6.39
1,264	634646.16	4271112.29	UCART1	6.68
1,265	634686.16	4271112.29	UCART1	6.71
1,266	634726.16	4271112.29	UCART1	6.91
1,267	634766.16	4271112.29	UCART1	7.01
1,268	634846.16	4271112.29	UCART1	7.01
1,269	634886.16	4271112.29	UCART1	7.01
1,270	634926.16	4271112.29	UCART1	7.01
1,271	634966.16	4271112.29	UCART1	7.01
1,272	635006.16	4271112.29	UCART1	7.01
1,273	635046.16	4271112.29	UCART1	7.01
1,274	635086.16	4271112.29	UCART1	7.01
1,275	635126.16	4271112.29	UCART1	7.01
1,276	635166.16	4271112.29	UCART1	7.01
1,277	635686.16	4271112.29	UCART1	7.62
1,278	635726.16	4271112.29	UCART1	7.62
1,279	635766.16	4271112.29	UCART1	7.62
1,280	635806.16	4271112.29	UCART1	7.62
1,281	635846.16	4271112.29	UCART1	7.64
1,282	635886.16	4271112.29	UCART1	7.91
1,283	635926.16	4271112.29	UCART1	7.92
1,284	635966.16	4271112.29	UCART1	7.95

1,285	636006.16	4271112.29	UCART1	8.06
1,286	636046.16	4271112.29	UCART1	8.46
1,287	636086.16	4271112.29	UCART1	8.81
1,288	636126.16	4271112.29	UCART1	8.84
1,289	636286.16	4271112.29	UCART1	9.14
1,290	636326.16	4271112.29	UCART1	9.45
1,291	636366.16	4271112.29	UCART1	9.45
1,292	636406.16	4271112.29	UCART1	9.45
1,293	636446.16	4271112.29	UCART1	9.14
1,294	636486.16	4271112.29	UCART1	9.14
1,295	636526.16	4271112.29	UCART1	9.14
1,296	636566.16	4271112.29	UCART1	9.14
1,297	636646.16	4271112.29	UCART1	9.14
1,298	636686.16	4271112.29	UCART1	9.14
1,299	636726.16	4271112.29	UCART1	9.15
1,300	636766.16	4271112.29	UCART1	9.38
1,301	636806.16	4271112.29	UCART1	9.45
1,302	636846.16	4271112.29	UCART1	9.34
1,303	636886.16	4271112.29	UCART1	9.15
1,304	636926.16	4271112.29	UCART1	9.14
1,305	637006.16	4271112.29	UCART1	9.38
1,306	637046.16	4271112.29	UCART1	9.45
1,307	637086.16	4271112.29	UCART1	9.45
1,308	637126.16	4271112.29	UCART1	9.43
1,309	637166.16	4271112.29	UCART1	9.40
1,310	637766.16	4271112.29	UCART1	8.25
1,311	637806.16	4271112.29	UCART1	8.68
1,312	637846.16	4271112.29	UCART1	9.09
1,313	637886.16	4271112.29	UCART1	9.47
1,314	637926.16	4271112.29	UCART1	9.88
1,315	637966.16	4271112.29	UCART1	10.28
1,316	638086.16	4271112.29	UCART1	10.67
1,317	638126.16	4271112.29	UCART1	10.67
1,318	638166.16	4271112.29	UCART1	10.67
1,319	638206.16	4271112.29	UCART1	10.67
1,320	638246.16	4271112.29	UCART1	10.39
1,321	638326.16	4271112.29	UCART1	10.14
1,322	638366.16	4271112.29	UCART1	9.50

1,323	633326.16	4271152.29	UCART1	7.32
1,324	633366.16	4271152.29	UCART1	7.32
1,325	633406.16	4271152.29	UCART1	7.32
1,326	633446.16	4271152.29	UCART1	7.32
1,327	633486.16	4271152.29	UCART1	7.32
1,328	633526.16	4271152.29	UCART1	7.32
1,329	633566.16	4271152.29	UCART1	7.33
1,330	633606.16	4271152.29	UCART1	7.58
1,331	633806.16	4271152.29	UCART1	7.32
1,332	633846.16	4271152.29	UCART1	7.32
1,333	633886.16	4271152.29	UCART1	7.14
1,334	633926.16	4271152.29	UCART1	7.09
1,335	633966.16	4271152.29	UCART1	7.18
1,336	634006.16	4271152.29	UCART1	7.32
1,337	634046.16	4271152.29	UCART1	7.32
1,338	634086.16	4271152.29	UCART1	7.32
1,339	634126.16	4271152.29	UCART1	7.54
1,340	634166.16	4271152.29	UCART1	7.62
1,341	634206.16	4271152.29	UCART1	7.62
1,342	634246.16	4271152.29	UCART1	7.62
1,343	634286.16	4271152.29	UCART1	7.32
1,344	634326.16	4271152.29	UCART1	7.32
1,345	634406.16	4271152.29	UCART1	7.09
1,346	634486.16	4271152.29	UCART1	7.09
1,347	634526.16	4271152.29	UCART1	7.06
1,348	634566.16	4271152.29	UCART1	6.78
1,349	634606.16	4271152.29	UCART1	6.78
1,350	634646.16	4271152.29	UCART1	6.80
1,351	634726.16	4271152.29	UCART1	7.01
1,352	634766.16	4271152.29	UCART1	7.01
1,353	634806.16	4271152.29	UCART1	7.01
1,354	634886.16	4271152.29	UCART1	7.01
1,355	634966.16	4271152.29	UCART1	7.01
1,356	635006.16	4271152.29	UCART1	7.01
1,357	635046.16	4271152.29	UCART1	7.01
1,358	635086.16	4271152.29	UCART1	7.01
1,359	635166.16	4271152.29	UCART1	7.18
1,360	635686.16	4271152.29	UCART1	7.62

1,361	635726.16	4271152.29	UCART1	7.62
1,362	635766.16	4271152.29	UCART1	7.62
1,363	635806.16	4271152.29	UCART1	7.68
1,364	635846.16	4271152.29	UCART1	7.92
1,365	635886.16	4271152.29	UCART1	7.92
1,366	635926.16	4271152.29	UCART1	7.92
1,367	635966.16	4271152.29	UCART1	7.92
1,368	636006.16	4271152.29	UCART1	7.85
1,369	636046.16	4271152.29	UCART1	8.36
1,370	636086.16	4271152.29	UCART1	8.93
1,371	636206.16	4271152.29	UCART1	9.14
1,372	636286.16	4271152.29	UCART1	9.14
1,373	636326.16	4271152.29	UCART1	9.45
1,374	636366.16	4271152.29	UCART1	9.42
1,375	636566.16	4271152.29	UCART1	9.14
1,376	636606.16	4271152.29	UCART1	9.14
1,377	636646.16	4271152.29	UCART1	9.14
1,378	636686.16	4271152.29	UCART1	9.14
1,379	636766.16	4271152.29	UCART1	9.37
1,380	636806.16	4271152.29	UCART1	9.45
1,381	636846.16	4271152.29	UCART1	9.36
1,382	636886.16	4271152.29	UCART1	9.16
1,383	636926.16	4271152.29	UCART1	9.14
1,384	636966.16	4271152.29	UCART1	9.14
1,385	637046.16	4271152.29	UCART1	9.45
1,386	637086.16	4271152.29	UCART1	9.45
1,387	637126.16	4271152.29	UCART1	9.45
1,388	637766.16	4271152.29	UCART1	8.18
1,389	637806.16	4271152.29	UCART1	8.61
1,390	637846.16	4271152.29	UCART1	9.06
1,391	637886.16	4271152.29	UCART1	9.47
1,392	637926.16	4271152.29	UCART1	9.88
1,393	637966.16	4271152.29	UCART1	10.28
1,394	633326.16	4271192.29	UCART1	7.32
1,395	633366.16	4271192.29	UCART1	7.32
1,396	633406.16	4271192.29	UCART1	7.32
1,397	633446.16	4271192.29	UCART1	7.32
1,398	633486.16	4271192.29	UCART1	7.32

1,399	633846.16	4271192.29	UCART1	7.32
1,400	633886.16	4271192.29	UCART1	7.32
1,401	633966.16	4271192.29	UCART1	7.39
1,402	634006.16	4271192.29	UCART1	7.49
1,403	634046.16	4271192.29	UCART1	7.49
1,404	634086.16	4271192.29	UCART1	7.42
1,405	634126.16	4271192.29	UCART1	7.54
1,406	634166.16	4271192.29	UCART1	7.62
1,407	634206.16	4271192.29	UCART1	7.62
1,408	634246.16	4271192.29	UCART1	7.62
1,409	634286.16	4271192.29	UCART1	7.32
1,410	634326.16	4271192.29	UCART1	7.39
1,411	634366.16	4271192.29	UCART1	7.49
1,412	634566.16	4271192.29	UCART1	7.19
1,413	634606.16	4271192.29	UCART1	7.19
1,414	634686.16	4271192.29	UCART1	7.01
1,415	634726.16	4271192.29	UCART1	7.01
1,416	634766.16	4271192.29	UCART1	7.01
1,417	634806.16	4271192.29	UCART1	7.01
1,418	634846.16	4271192.29	UCART1	7.01
1,419	634966.16	4271192.29	UCART1	7.01
1,420	635006.16	4271192.29	UCART1	7.01
1,421	635046.16	4271192.29	UCART1	7.08
1,422	635086.16	4271192.29	UCART1	7.19
1,423	635126.16	4271192.29	UCART1	7.32
1,424	635166.16	4271192.29	UCART1	7.32
1,425	635246.16	4271192.29	UCART1	7.32
1,426	635326.16	4271192.29	UCART1	7.54
1,427	635366.16	4271192.29	UCART1	7.62
1,428	635406.16	4271192.29	UCART1	7.69
1,429	635446.16	4271192.29	UCART1	7.80
1,430	635686.16	4271192.29	UCART1	7.62
1,431	635726.16	4271192.29	UCART1	7.62
1,432	635766.16	4271192.29	UCART1	7.62
1,433	635806.16	4271192.29	UCART1	7.71
1,434	635846.16	4271192.29	UCART1	7.76
1,435	635886.16	4271192.29	UCART1	7.85
1,436	635926.16	4271192.29	UCART1	7.75

1,437	635966.16	4271192.29	UCART1	7.74
1,438	636006.16	4271192.29	UCART1	7.62
1,439	636166.16	4271192.29	UCART1	9.14
1,440	636246.16	4271192.29	UCART1	9.14
1,441	636286.16	4271192.29	UCART1	9.14
1,442	636326.16	4271192.29	UCART1	9.27
1,443	636366.16	4271192.29	UCART1	9.22
1,444	636406.16	4271192.29	UCART1	9.14
1,445	636446.16	4271192.29	UCART1	9.14
1,446	636486.16	4271192.29	UCART1	9.14
1,447	636526.16	4271192.29	UCART1	9.14
1,448	636566.16	4271192.29	UCART1	9.14
1,449	636606.16	4271192.29	UCART1	9.14
1,450	636646.16	4271192.29	UCART1	9.14
1,451	636686.16	4271192.29	UCART1	9.14
1,452	636726.16	4271192.29	UCART1	9.14
1,453	636766.16	4271192.29	UCART1	9.24
1,454	636806.16	4271192.29	UCART1	9.45
1,455	636846.16	4271192.29	UCART1	9.45
1,456	636886.16	4271192.29	UCART1	9.35
1,457	636926.16	4271192.29	UCART1	9.14
1,458	636966.16	4271192.29	UCART1	9.14
1,459	637006.16	4271192.29	UCART1	9.14
1,460	637046.16	4271192.29	UCART1	9.45
1,461	637806.16	4271192.29	UCART1	8.48
1,462	637846.16	4271192.29	UCART1	9.06
1,463	637886.16	4271192.29	UCART1	9.47
1,464	637926.16	4271192.29	UCART1	9.88
1,465	637966.16	4271192.29	UCART1	10.28
1,466	638086.16	4271192.29	UCART1	10.44
1,467	638126.16	4271192.29	UCART1	10.36
1,468	638166.16	4271192.29	UCART1	10.36
1,469	638206.16	4271192.29	UCART1	10.36
1,470	638246.16	4271192.29	UCART1	10.18
1,471	638286.16	4271192.29	UCART1	9.99
1,472	638326.16	4271192.29	UCART1	9.79
1,473	638366.16	4271192.29	UCART1	9.45
1,474	633326.16	4271232.29	UCART1	7.32

1,475	633366.16	4271232.29	UCART1	7.32
1,476	633406.16	4271232.29	UCART1	7.32
1,477	633446.16	4271232.29	UCART1	7.32
1,478	633486.16	4271232.29	UCART1	7.32
1,479	633526.16	4271232.29	UCART1	7.32
1,480	633846.16	4271232.29	UCART1	7.48
1,481	633886.16	4271232.29	UCART1	7.32
1,482	633926.16	4271232.29	UCART1	7.32
1,483	633966.16	4271232.29	UCART1	7.44
1,484	634006.16	4271232.29	UCART1	7.62
1,485	634046.16	4271232.29	UCART1	7.62
1,486	634086.16	4271232.29	UCART1	7.61
1,487	634166.16	4271232.29	UCART1	7.62
1,488	634206.16	4271232.29	UCART1	7.62
1,489	634246.16	4271232.29	UCART1	7.62
1,490	634646.16	4271232.29	UCART1	7.31
1,491	634686.16	4271232.29	UCART1	7.29
1,492	634726.16	4271232.29	UCART1	7.08
1,493	634766.16	4271232.29	UCART1	7.01
1,494	634806.16	4271232.29	UCART1	7.12
1,495	634846.16	4271232.29	UCART1	7.29
1,496	634886.16	4271232.29	UCART1	7.29
1,497	634926.16	4271232.29	UCART1	7.29
1,498	635006.16	4271232.29	UCART1	7.29
1,499	635046.16	4271232.29	UCART1	7.30
1,500	635086.16	4271232.29	UCART1	7.32
1,501	635126.16	4271232.29	UCART1	7.32
1,502	635166.16	4271232.29	UCART1	7.32
1,503	635206.16	4271232.29	UCART1	7.32
1,504	635246.16	4271232.29	UCART1	7.32
1,505	635286.16	4271232.29	UCART1	7.43
1,506	635326.16	4271232.29	UCART1	7.61
1,507	635366.16	4271232.29	UCART1	7.64
1,508	635406.16	4271232.29	UCART1	7.91
1,509	635446.16	4271232.29	UCART1	7.92
1,510	635486.16	4271232.29	UCART1	7.92
1,511	635526.16	4271232.29	UCART1	7.91
1,512	635566.16	4271232.29	UCART1	7.90

1,513	635606.16	4271232.29	UCART1	7.62
1,514	635646.16	4271232.29	UCART1	7.62
1,515	635686.16	4271232.29	UCART1	7.62
1,516	635726.16	4271232.29	UCART1	7.62
1,517	635766.16	4271232.29	UCART1	7.62
1,518	635806.16	4271232.29	UCART1	7.62
1,519	635846.16	4271232.29	UCART1	7.62
1,520	635886.16	4271232.29	UCART1	7.64
1,521	635926.16	4271232.29	UCART1	7.62
1,522	636086.16	4271232.29	UCART1	9.12
1,523	636126.16	4271232.29	UCART1	9.14
1,524	636206.16	4271232.29	UCART1	9.14
1,525	636246.16	4271232.29	UCART1	9.14
1,526	636286.16	4271232.29	UCART1	9.14
1,527	636326.16	4271232.29	UCART1	9.14
1,528	636366.16	4271232.29	UCART1	9.14
1,529	636406.16	4271232.29	UCART1	9.14
1,530	636446.16	4271232.29	UCART1	9.14
1,531	636486.16	4271232.29	UCART1	9.14
1,532	636526.16	4271232.29	UCART1	9.14
1,533	636566.16	4271232.29	UCART1	9.14
1,534	636606.16	4271232.29	UCART1	9.14
1,535	636646.16	4271232.29	UCART1	9.14
1,536	636686.16	4271232.29	UCART1	9.14
1,537	636726.16	4271232.29	UCART1	9.14
1,538	636766.16	4271232.29	UCART1	9.14
1,539	636806.16	4271232.29	UCART1	9.45
1,540	636846.16	4271232.29	UCART1	9.45
1,541	636886.16	4271232.29	UCART1	9.45
1,542	636926.16	4271232.29	UCART1	9.42
1,543	636966.16	4271232.29	UCART1	9.42
1,544	637006.16	4271232.29	UCART1	9.42
1,545	637806.16	4271232.29	UCART1	8.59
1,546	637846.16	4271232.29	UCART1	9.34
1,547	637886.16	4271232.29	UCART1	9.47
1,548	637926.16	4271232.29	UCART1	9.88
1,549	637966.16	4271232.29	UCART1	10.28
1,550	638086.16	4271232.29	UCART1	10.44

1,551	638126.16	4271232.29	UCART1	10.36
1,552	638166.16	4271232.29	UCART1	10.36
1,553	638206.16	4271232.29	UCART1	10.16
1,554	638246.16	4271232.29	UCART1	10.04
1,555	638286.16	4271232.29	UCART1	9.77
1,556	638326.16	4271232.29	UCART1	9.75
1,557	638366.16	4271232.29	UCART1	9.45
1,558	633326.16	4271272.29	UCART1	7.32
1,559	633366.16	4271272.29	UCART1	7.32
1,560	633406.16	4271272.29	UCART1	7.32
1,561	633446.16	4271272.29	UCART1	7.32
1,562	633486.16	4271272.29	UCART1	7.32
1,563	633526.16	4271272.29	UCART1	7.32
1,564	633606.16	4271272.29	UCART1	7.62
1,565	633646.16	4271272.29	UCART1	7.62
1,566	633686.16	4271272.29	UCART1	7.62
1,567	633846.16	4271272.29	UCART1	7.53
1,568	633886.16	4271272.29	UCART1	7.33
1,569	633926.16	4271272.29	UCART1	7.34
1,570	633966.16	4271272.29	UCART1	7.62
1,571	634006.16	4271272.29	UCART1	7.62
1,572	634046.16	4271272.29	UCART1	7.62
1,573	634086.16	4271272.29	UCART1	7.62
1,574	634246.16	4271272.29	UCART1	7.68
1,575	634286.16	4271272.29	UCART1	7.62
1,576	634686.16	4271272.29	UCART1	7.36
1,577	634726.16	4271272.29	UCART1	7.32
1,578	634766.16	4271272.29	UCART1	7.32
1,579	634806.16	4271272.29	UCART1	7.32
1,580	634846.16	4271272.29	UCART1	7.32
1,581	634886.16	4271272.29	UCART1	7.32
1,582	634926.16	4271272.29	UCART1	7.32
1,583	634966.16	4271272.29	UCART1	7.32
1,584	635006.16	4271272.29	UCART1	7.32
1,585	635086.16	4271272.29	UCART1	7.32
1,586	635126.16	4271272.29	UCART1	7.32
1,587	635166.16	4271272.29	UCART1	7.32
1,588	635206.16	4271272.29	UCART1	7.32

1,589	635246.16	4271272.29	UCART1	7.32
1,590	635286.16	4271272.29	UCART1	7.44
1,591	635326.16	4271272.29	UCART1	7.62
1,592	635366.16	4271272.29	UCART1	7.71
1,593	635406.16	4271272.29	UCART1	7.92
1,594	635446.16	4271272.29	UCART1	7.98
1,595	635486.16	4271272.29	UCART1	7.92
1,596	635526.16	4271272.29	UCART1	7.92
1,597	635566.16	4271272.29	UCART1	7.92
1,598	635606.16	4271272.29	UCART1	7.90
1,599	635646.16	4271272.29	UCART1	7.62
1,600	635686.16	4271272.29	UCART1	7.62
1,601	635726.16	4271272.29	UCART1	7.62
1,602	635766.16	4271272.29	UCART1	7.62
1,603	635806.16	4271272.29	UCART1	7.62
1,604	635846.16	4271272.29	UCART1	7.69
1,605	636046.16	4271272.29	UCART1	9.20
1,606	636086.16	4271272.29	UCART1	9.14
1,607	636166.16	4271272.29	UCART1	9.09
1,608	636206.16	4271272.29	UCART1	9.07
1,609	636246.16	4271272.29	UCART1	9.07
1,610	636286.16	4271272.29	UCART1	8.90
1,611	636326.16	4271272.29	UCART1	9.07
1,612	636366.16	4271272.29	UCART1	9.14
1,613	636406.16	4271272.29	UCART1	9.14
1,614	636446.16	4271272.29	UCART1	9.14
1,615	636486.16	4271272.29	UCART1	9.14
1,616	636526.16	4271272.29	UCART1	9.14
1,617	636566.16	4271272.29	UCART1	9.07
1,618	636606.16	4271272.29	UCART1	9.14
1,619	636646.16	4271272.29	UCART1	9.14
1,620	636686.16	4271272.29	UCART1	9.14
1,621	636726.16	4271272.29	UCART1	9.14
1,622	636766.16	4271272.29	UCART1	9.14
1,623	636806.16	4271272.29	UCART1	9.38
1,624	636846.16	4271272.29	UCART1	9.45
1,625	636886.16	4271272.29	UCART1	9.45
1,626	636926.16	4271272.29	UCART1	9.45

1,627	636966.16	4271272.29	UCART1	9.45
1,628	637006.16	4271272.29	UCART1	9.45
1,629	637046.16	4271272.29	UCART1	9.45
1,630	638086.16	4271272.29	UCART1	10.44
1,631	638126.16	4271272.29	UCART1	10.36
1,632	638166.16	4271272.29	UCART1	10.24
1,633	638206.16	4271272.29	UCART1	10.06
1,634	638246.16	4271272.29	UCART1	10.04
1,635	638286.16	4271272.29	UCART1	9.75
1,636	638326.16	4271272.29	UCART1	9.53
1,637	638366.16	4271272.29	UCART1	9.43
1,638	633366.16	4271312.29	UCART1	7.32
1,639	633406.16	4271312.29	UCART1	7.32
1,640	633446.16	4271312.29	UCART1	7.32
1,641	633486.16	4271312.29	UCART1	7.32
1,642	633526.16	4271312.29	UCART1	7.32
1,643	633606.16	4271312.29	UCART1	7.62
1,644	633646.16	4271312.29	UCART1	7.62
1,645	633686.16	4271312.29	UCART1	7.62
1,646	633846.16	4271312.29	UCART1	7.62
1,647	633886.16	4271312.29	UCART1	7.39
1,648	633926.16	4271312.29	UCART1	7.50
1,649	634006.16	4271312.29	UCART1	7.62
1,650	634126.16	4271312.29	UCART1	7.62
1,651	634166.16	4271312.29	UCART1	7.63
1,652	634206.16	4271312.29	UCART1	7.80
1,653	634246.16	4271312.29	UCART1	7.89
1,654	634726.16	4271312.29	UCART1	7.36
1,655	634766.16	4271312.29	UCART1	7.32
1,656	634846.16	4271312.29	UCART1	7.32
1,657	634886.16	4271312.29	UCART1	7.33
1,658	634926.16	4271312.29	UCART1	7.49
1,659	634966.16	4271312.29	UCART1	7.49
1,660	635046.16	4271312.29	UCART1	7.42
1,661	635086.16	4271312.29	UCART1	7.32
1,662	635166.16	4271312.29	UCART1	7.32
1,663	635206.16	4271312.29	UCART1	7.32
1,664	635246.16	4271312.29	UCART1	7.33

1,665	635286.16	4271312.29	UCART1	7.54
1,666	635326.16	4271312.29	UCART1	7.62
1,667	635406.16	4271312.29	UCART1	8.00
1,668	635446.16	4271312.29	UCART1	8.20
1,669	635486.16	4271312.29	UCART1	8.09
1,670	635526.16	4271312.29	UCART1	7.92
1,671	635566.16	4271312.29	UCART1	7.92
1,672	635606.16	4271312.29	UCART1	7.90
1,673	635646.16	4271312.29	UCART1	7.62
1,674	635686.16	4271312.29	UCART1	7.62
1,675	635726.16	4271312.29	UCART1	7.62
1,676	635766.16	4271312.29	UCART1	7.69
1,677	635926.16	4271312.29	UCART1	8.99
1,678	635966.16	4271312.29	UCART1	9.26
1,679	636006.16	4271312.29	UCART1	9.14
1,680	636126.16	4271312.29	UCART1	8.97
1,681	636166.16	4271312.29	UCART1	8.87
1,682	636206.16	4271312.29	UCART1	8.83
1,683	636246.16	4271312.29	UCART1	8.66
1,684	636286.16	4271312.29	UCART1	8.66
1,685	636326.16	4271312.29	UCART1	8.85
1,686	636366.16	4271312.29	UCART1	8.97
1,687	636406.16	4271312.29	UCART1	8.97
1,688	636446.16	4271312.29	UCART1	8.97
1,689	636486.16	4271312.29	UCART1	8.97
1,690	636526.16	4271312.29	UCART1	8.97
1,691	636566.16	4271312.29	UCART1	8.85
1,692	636606.16	4271312.29	UCART1	9.04
1,693	636646.16	4271312.29	UCART1	9.14
1,694	636686.16	4271312.29	UCART1	9.14
1,695	636726.16	4271312.29	UCART1	9.14
1,696	636766.16	4271312.29	UCART1	9.14
1,697	636806.16	4271312.29	UCART1	9.17
1,698	636846.16	4271312.29	UCART1	9.45
1,699	636886.16	4271312.29	UCART1	9.45
1,700	636926.16	4271312.29	UCART1	9.45
1,701	636966.16	4271312.29	UCART1	9.52
1,702	637006.16	4271312.29	UCART1	9.63

1,703	637046.16	4271312.29	UCART1	9.63
1,704	637086.16	4271312.29	UCART1	9.75
1,705	637846.16	4271312.29	UCART1	9.11
1,706	637886.16	4271312.29	UCART1	9.47
1,707	637966.16	4271312.29	UCART1	10.28
1,708	638086.16	4271312.29	UCART1	10.44
1,709	638126.16	4271312.29	UCART1	10.35
1,710	638166.16	4271312.29	UCART1	10.13
1,711	638206.16	4271312.29	UCART1	10.06
1,712	638246.16	4271312.29	UCART1	9.87
1,713	638286.16	4271312.29	UCART1	9.75
1,714	638326.16	4271312.29	UCART1	9.53
1,715	638366.16	4271312.29	UCART1	9.43
1,716	633366.16	4271352.29	UCART1	7.32
1,717	633406.16	4271352.29	UCART1	7.32
1,718	633446.16	4271352.29	UCART1	7.32
1,719	633486.16	4271352.29	UCART1	7.32
1,720	633526.16	4271352.29	UCART1	7.32
1,721	633566.16	4271352.29	UCART1	7.34
1,722	633606.16	4271352.29	UCART1	7.62
1,723	633646.16	4271352.29	UCART1	7.62
1,724	633686.16	4271352.29	UCART1	7.62
1,725	633726.16	4271352.29	UCART1	7.62
1,726	633886.16	4271352.29	UCART1	7.60
1,727	634006.16	4271352.29	UCART1	7.62
1,728	634046.16	4271352.29	UCART1	7.64
1,729	634086.16	4271352.29	UCART1	7.90
1,730	634126.16	4271352.29	UCART1	7.69
1,731	634806.16	4271352.29	UCART1	7.32
1,732	634846.16	4271352.29	UCART1	7.32
1,733	634886.16	4271352.29	UCART1	7.34
1,734	634926.16	4271352.29	UCART1	7.62
1,735	634966.16	4271352.29	UCART1	7.62
1,736	635006.16	4271352.29	UCART1	7.62
1,737	635046.16	4271352.29	UCART1	7.61
1,738	635126.16	4271352.29	UCART1	7.59
1,739	635206.16	4271352.29	UCART1	7.59
1,740	635246.16	4271352.29	UCART1	7.60

1,741	635326.16	4271352.29	UCART1	7.62
1,742	635366.16	4271352.29	UCART1	7.92
1,743	635406.16	4271352.29	UCART1	8.05
1,744	635446.16	4271352.29	UCART1	8.23
1,745	635486.16	4271352.29	UCART1	8.21
1,746	635526.16	4271352.29	UCART1	7.92
1,747	635566.16	4271352.29	UCART1	7.72
1,748	635606.16	4271352.29	UCART1	7.90
1,749	635646.16	4271352.29	UCART1	7.73
1,750	635686.16	4271352.29	UCART1	7.90
1,751	635846.16	4271352.29	UCART1	9.33
1,752	635886.16	4271352.29	UCART1	9.15
1,753	636006.16	4271352.29	UCART1	8.87
1,754	636046.16	4271352.29	UCART1	8.87
1,755	636086.16	4271352.29	UCART1	8.82
1,756	636126.16	4271352.29	UCART1	8.56
1,757	636166.16	4271352.29	UCART1	8.56
1,758	636206.16	4271352.29	UCART1	8.56
1,759	636246.16	4271352.29	UCART1	8.53
1,760	636286.16	4271352.29	UCART1	8.53
1,761	636326.16	4271352.29	UCART1	8.56
1,762	636366.16	4271352.29	UCART1	8.56
1,763	636406.16	4271352.29	UCART1	8.56
1,764	636606.16	4271352.29	UCART1	9.13
1,765	636646.16	4271352.29	UCART1	9.14
1,766	636686.16	4271352.29	UCART1	9.14
1,767	636726.16	4271352.29	UCART1	9.14
1,768	636766.16	4271352.29	UCART1	9.14
1,769	636806.16	4271352.29	UCART1	9.15
1,770	636846.16	4271352.29	UCART1	9.17
1,771	636886.16	4271352.29	UCART1	9.38
1,772	636926.16	4271352.29	UCART1	9.45
1,773	636966.16	4271352.29	UCART1	9.57
1,774	637006.16	4271352.29	UCART1	9.75
1,775	637046.16	4271352.29	UCART1	9.77
1,776	637086.16	4271352.29	UCART1	9.92
1,777	637846.16	4271352.29	UCART1	9.14
1,778	637886.16	4271352.29	UCART1	9.47

1,779	637966.16	4271352.29	UCART1	10.28
1,780	638086.16	4271352.29	UCART1	10.44
1,781	638126.16	4271352.29	UCART1	10.34
1,782	638166.16	4271352.29	UCART1	10.06
1,783	638206.16	4271352.29	UCART1	10.06
1,784	638246.16	4271352.29	UCART1	9.75
1,785	638286.16	4271352.29	UCART1	9.75
1,786	638326.16	4271352.29	UCART1	9.53
1,787	638366.16	4271352.29	UCART1	9.43
1,788	633366.16	4271392.29	UCART1	7.32
1,789	633406.16	4271392.29	UCART1	7.32
1,790	633446.16	4271392.29	UCART1	7.32
1,791	633486.16	4271392.29	UCART1	7.32
1,792	633526.16	4271392.29	UCART1	7.32
1,793	633566.16	4271392.29	UCART1	7.34
1,794	633646.16	4271392.29	UCART1	7.62
1,795	633686.16	4271392.29	UCART1	7.62
1,796	633726.16	4271392.29	UCART1	7.62
1,797	633886.16	4271392.29	UCART1	7.62
1,798	633926.16	4271392.29	UCART1	7.62
1,799	633966.16	4271392.29	UCART1	7.62
1,800	634006.16	4271392.29	UCART1	7.85
1,801	634046.16	4271392.29	UCART1	8.24
1,802	634086.16	4271392.29	UCART1	8.30
1,803	634126.16	4271392.29	UCART1	8.30
1,804	634166.16	4271392.29	UCART1	8.31
1,805	634246.16	4271392.29	UCART1	8.61
1,806	634286.16	4271392.29	UCART1	8.61
1,807	634846.16	4271392.29	UCART1	7.45
1,808	634886.16	4271392.29	UCART1	7.62
1,809	634926.16	4271392.29	UCART1	7.65
1,810	634966.16	4271392.29	UCART1	7.86
1,811	635006.16	4271392.29	UCART1	7.69
1,812	635126.16	4271392.29	UCART1	7.62
1,813	635166.16	4271392.29	UCART1	7.62
1,814	635246.16	4271392.29	UCART1	7.62
1,815	635286.16	4271392.29	UCART1	7.62
1,816	635326.16	4271392.29	UCART1	7.68

1,817	635366.16	4271392.29	UCART1	7.95
1,818	635406.16	4271392.29	UCART1	8.26
1,819	635446.16	4271392.29	UCART1	8.25
1,820	635486.16	4271392.29	UCART1	8.21
1,821	635526.16	4271392.29	UCART1	7.80
1,822	635566.16	4271392.29	UCART1	7.68
1,823	635606.16	4271392.29	UCART1	7.83
1,824	635766.16	4271392.29	UCART1	9.14
1,825	635806.16	4271392.29	UCART1	9.14
1,826	635886.16	4271392.29	UCART1	9.07
1,827	635926.16	4271392.29	UCART1	8.84
1,828	635966.16	4271392.29	UCART1	8.76
1,829	636006.16	4271392.29	UCART1	8.64
1,830	636046.16	4271392.29	UCART1	8.46
1,831	636086.16	4271392.29	UCART1	8.46
1,832	636126.16	4271392.29	UCART1	8.37
1,833	636166.16	4271392.29	UCART1	8.23
1,834	636206.16	4271392.29	UCART1	8.23
1,835	636246.16	4271392.29	UCART1	8.20
1,836	636286.16	4271392.29	UCART1	8.15
1,837	636326.16	4271392.29	UCART1	8.15
1,838	636366.16	4271392.29	UCART1	8.15
1,839	636406.16	4271392.29	UCART1	8.15
1,840	636446.16	4271392.29	UCART1	8.15
1,841	636486.16	4271392.29	UCART1	8.15
1,842	636526.16	4271392.29	UCART1	8.55
1,843	636566.16	4271392.29	UCART1	8.93
1,844	636606.16	4271392.29	UCART1	9.14
1,845	636646.16	4271392.29	UCART1	9.14
1,846	636686.16	4271392.29	UCART1	9.14
1,847	636726.16	4271392.29	UCART1	9.14
1,848	636766.16	4271392.29	UCART1	9.14
1,849	636806.16	4271392.29	UCART1	9.14
1,850	636846.16	4271392.29	UCART1	9.14
1,851	636886.16	4271392.29	UCART1	9.14
1,852	636926.16	4271392.29	UCART1	9.38
1,853	636966.16	4271392.29	UCART1	9.57
1,854	637006.16	4271392.29	UCART1	9.81

1,855	637046.16	4271392.29	UCART1	10.13
1,856	637846.16	4271392.29	UCART1	9.14
1,857	637886.16	4271392.29	UCART1	9.47
1,858	637966.16	4271392.29	UCART1	10.28
1,859	638086.16	4271392.29	UCART1	10.44
1,860	638126.16	4271392.29	UCART1	10.34
1,861	638166.16	4271392.29	UCART1	10.06
1,862	638206.16	4271392.29	UCART1	10.00
1,863	638246.16	4271392.29	UCART1	9.75
1,864	638286.16	4271392.29	UCART1	9.72
1,865	638326.16	4271392.29	UCART1	9.51
1,866	638366.16	4271392.29	UCART1	9.43
1,867	633406.16	4271432.29	UCART1	7.32
1,868	633446.16	4271432.29	UCART1	7.32
1,869	633486.16	4271432.29	UCART1	7.32
1,870	633526.16	4271432.29	UCART1	7.32
1,871	633566.16	4271432.29	UCART1	7.34
1,872	633646.16	4271432.29	UCART1	7.62
1,873	633766.16	4271432.29	UCART1	7.62
1,874	633926.16	4271432.29	UCART1	7.63
1,875	633966.16	4271432.29	UCART1	7.87
1,876	634006.16	4271432.29	UCART1	8.20
1,877	634046.16	4271432.29	UCART1	8.43
1,878	634086.16	4271432.29	UCART1	8.71
1,879	634126.16	4271432.29	UCART1	8.84
1,880	634166.16	4271432.29	UCART1	8.90
1,881	634966.16	4271432.29	UCART1	7.88
1,882	635006.16	4271432.29	UCART1	7.92
1,883	635046.16	4271432.29	UCART1	7.80
1,884	635086.16	4271432.29	UCART1	7.80
1,885	635166.16	4271432.29	UCART1	7.80
1,886	635206.16	4271432.29	UCART1	7.89
1,887	635246.16	4271432.29	UCART1	7.80
1,888	635286.16	4271432.29	UCART1	7.80
1,889	635326.16	4271432.29	UCART1	8.02
1,890	635366.16	4271432.29	UCART1	8.12
1,891	635406.16	4271432.29	UCART1	8.46
1,892	635486.16	4271432.29	UCART1	8.04

1,893	635526.16	4271432.29	UCART1	7.87
1,894	635686.16	4271432.29	UCART1	9.12
1,895	635726.16	4271432.29	UCART1	9.14
1,896	635806.16	4271432.29	UCART1	8.97
1,897	635846.16	4271432.29	UCART1	8.66
1,898	635886.16	4271432.29	UCART1	8.66
1,899	635926.16	4271432.29	UCART1	8.44
1,900	636006.16	4271432.29	UCART1	8.31
1,901	636046.16	4271432.29	UCART1	8.10
1,902	636086.16	4271432.29	UCART1	8.05
1,903	636126.16	4271432.29	UCART1	8.05
1,904	637846.16	4271432.29	UCART1	9.10
1,905	637886.16	4271432.29	UCART1	9.47
1,906	637966.16	4271432.29	UCART1	10.28
1,907	638086.16	4271432.29	UCART1	10.44
1,908	638126.16	4271432.29	UCART1	10.34
1,909	638166.16	4271432.29	UCART1	10.06
1,910	638206.16	4271432.29	UCART1	9.83
1,911	638246.16	4271432.29	UCART1	9.75
1,912	638366.16	4271432.29	UCART1	9.43
1,913	633406.16	4271472.29	UCART1	7.32
1,914	633446.16	4271472.29	UCART1	7.32
1,915	633486.16	4271472.29	UCART1	7.32
1,916	633526.16	4271472.29	UCART1	7.32
1,917	633766.16	4271472.29	UCART1	7.62
1,918	633806.16	4271472.29	UCART1	7.62
1,919	633886.16	4271472.29	UCART1	7.83
1,920	633926.16	4271472.29	UCART1	8.20
1,921	633966.16	4271472.29	UCART1	8.49
1,922	634006.16	4271472.29	UCART1	8.73
1,923	634046.16	4271472.29	UCART1	9.09
1,924	634966.16	4271472.29	UCART1	7.92
1,925	635006.16	4271472.29	UCART1	7.92
1,926	635126.16	4271472.29	UCART1	7.95
1,927	635166.16	4271472.29	UCART1	8.20
1,928	635206.16	4271472.29	UCART1	8.20
1,929	635246.16	4271472.29	UCART1	8.20
1,930	635286.16	4271472.29	UCART1	8.20

1,931	635326.16	4271472.29	UCART1	8.43
1,932	635406.16	4271472.29	UCART1	8.81
1,933	635446.16	4271472.29	UCART1	8.83
1,934	635606.16	4271472.29	UCART1	9.35
1,935	635646.16	4271472.29	UCART1	9.15
1,936	635686.16	4271472.29	UCART1	9.15
1,937	635726.16	4271472.29	UCART1	8.87
1,938	635766.16	4271472.29	UCART1	8.86
1,939	635806.16	4271472.29	UCART1	8.63
1,940	635846.16	4271472.29	UCART1	8.51
1,941	635886.16	4271472.29	UCART1	8.26
1,942	635926.16	4271472.29	UCART1	8.03
1,943	637846.16	4271472.29	UCART1	9.06
1,944	637886.16	4271472.29	UCART1	9.47
1,945	637966.16	4271472.29	UCART1	10.28
1,946	638086.16	4271472.29	UCART1	10.37
1,947	638126.16	4271472.29	UCART1	10.34
1,948	638166.16	4271472.29	UCART1	9.95
1,949	638206.16	4271472.29	UCART1	9.76
1,950	638326.16	4271472.29	UCART1	9.45
1,951	638366.16	4271472.29	UCART1	9.45
1,952	633406.16	4271512.29	UCART1	7.56
1,953	633446.16	4271512.29	UCART1	7.62
1,954	633486.16	4271512.29	UCART1	7.62
1,955	633806.16	4271512.29	UCART1	7.62
1,956	633926.16	4271512.29	UCART1	8.13
1,957	633966.16	4271512.29	UCART1	8.80
1,958	634126.16	4271512.29	UCART1	7.30
1,959	634166.16	4271512.29	UCART1	7.13
1,960	634206.16	4271512.29	UCART1	6.15
1,961	634246.16	4271512.29	UCART1	5.17
1,962	634286.16	4271512.29	UCART1	6.44
1,963	634326.16	4271512.29	UCART1	6.98
1,964	634366.16	4271512.29	UCART1	7.17
1,965	634406.16	4271512.29	UCART1	7.16
1,966	634446.16	4271512.29	UCART1	6.72
1,967	635006.16	4271512.29	UCART1	8.23
1,968	635166.16	4271512.29	UCART1	8.30

1,969	635206.16	4271512.29	UCART1	8.47
1,970	635246.16	4271512.29	UCART1	8.61
1,971	635326.16	4271512.29	UCART1	8.78
1,972	635366.16	4271512.29	UCART1	8.91
1,973	635526.16	4271512.29	UCART1	9.07
1,974	635566.16	4271512.29	UCART1	9.29
1,975	635606.16	4271512.29	UCART1	9.36
1,976	635646.16	4271512.29	UCART1	9.14
1,977	635686.16	4271512.29	UCART1	9.09
1,978	635726.16	4271512.29	UCART1	8.74
1,979	635766.16	4271512.29	UCART1	8.46
1,980	635806.16	4271512.29	UCART1	8.23
1,981	635846.16	4271512.29	UCART1	8.13
1,982	637846.16	4271512.29	UCART1	8.99
1,983	637886.16	4271512.29	UCART1	9.47
1,984	637966.16	4271512.29	UCART1	10.28
1,985	638086.16	4271512.29	UCART1	10.38
1,986	638126.16	4271512.29	UCART1	10.05
1,987	638166.16	4271512.29	UCART1	9.89
1,988	638206.16	4271512.29	UCART1	9.70
1,989	638286.16	4271512.29	UCART1	9.37
1,990	638326.16	4271512.29	UCART1	9.37
1,991	638366.16	4271512.29	UCART1	9.36
1,992	633406.16	4271552.29	UCART1	7.62
1,993	633446.16	4271552.29	UCART1	7.62
1,994	633486.16	4271552.29	UCART1	7.62
1,995	633526.16	4271552.29	UCART1	7.62
1,996	633766.16	4271552.29	UCART1	7.62
1,997	633806.16	4271552.29	UCART1	7.62
1,998	633846.16	4271552.29	UCART1	7.62
1,999	634086.16	4271552.29	UCART1	6.55
2,000	634126.16	4271552.29	UCART1	6.66
2,001	634166.16	4271552.29	UCART1	6.14
2,002	634206.16	4271552.29	UCART1	5.31
2,003	634246.16	4271552.29	UCART1	4.88
2,004	634286.16	4271552.29	UCART1	5.36
2,005	634326.16	4271552.29	UCART1	6.17
2,006	634366.16	4271552.29	UCART1	6.35

2,007	634406.16	4271552.29	UCART1	6.30
2,008	634446.16	4271552.29	UCART1	5.45
2,009	634486.16	4271552.29	UCART1	5.93
2,010	634526.16	4271552.29	UCART1	7.00
2,011	634566.16	4271552.29	UCART1	7.50
2,012	635446.16	4271552.29	UCART1	9.01
2,013	635486.16	4271552.29	UCART1	8.96
2,014	635526.16	4271552.29	UCART1	8.84
2,015	635566.16	4271552.29	UCART1	9.06
2,016	635606.16	4271552.29	UCART1	8.97
2,017	635646.16	4271552.29	UCART1	8.97
2,018	635686.16	4271552.29	UCART1	8.74
2,019	635726.16	4271552.29	UCART1	8.35
2,020	635766.16	4271552.29	UCART1	8.16
2,021	633446.16	4271592.29	UCART1	7.62
2,022	633486.16	4271592.29	UCART1	7.62
2,023	633526.16	4271592.29	UCART1	7.62
2,024	633646.16	4271592.29	UCART1	7.62
2,025	633686.16	4271592.29	UCART1	7.62
2,026	633726.16	4271592.29	UCART1	7.62
2,027	633766.16	4271592.29	UCART1	7.83
2,028	633806.16	4271592.29	UCART1	8.14
2,029	634046.16	4271592.29	UCART1	6.12
2,030	634086.16	4271592.29	UCART1	6.22
2,031	634126.16	4271592.29	UCART1	6.20
2,032	634166.16	4271592.29	UCART1	5.75
2,033	634206.16	4271592.29	UCART1	4.96
2,034	634246.16	4271592.29	UCART1	4.80
2,035	634286.16	4271592.29	UCART1	5.21
2,036	634326.16	4271592.29	UCART1	5.52
2,037	634366.16	4271592.29	UCART1	5.54
2,038	634406.16	4271592.29	UCART1	5.00
2,039	634446.16	4271592.29	UCART1	5.31
2,040	634486.16	4271592.29	UCART1	5.94
2,041	634526.16	4271592.29	UCART1	6.47
2,042	634566.16	4271592.29	UCART1	7.04
2,043	634606.16	4271592.29	UCART1	7.26
2,044	634646.16	4271592.29	UCART1	7.35

2,045	635086.16	4271592.29	UCART1	8.74
2,046	635126.16	4271592.29	UCART1	8.81
2,047	635166.16	4271592.29	UCART1	8.84
2,048	635206.16	4271592.29	UCART1	9.04
2,049	635366.16	4271592.29	UCART1	9.12
2,050	635406.16	4271592.29	UCART1	8.87
2,051	635446.16	4271592.29	UCART1	8.85
2,052	635486.16	4271592.29	UCART1	8.84
2,053	635526.16	4271592.29	UCART1	8.84
2,054	635566.16	4271592.29	UCART1	8.86
2,055	635606.16	4271592.29	UCART1	8.82
2,056	635646.16	4271592.29	UCART1	8.56
2,057	635686.16	4271592.29	UCART1	8.34
2,058	638046.16	4271592.29	UCART1	10.55
2,059	638086.16	4271592.29	UCART1	10.37
2,060	638126.16	4271592.29	UCART1	10.04
2,061	638166.16	4271592.29	UCART1	9.63
2,062	638206.16	4271592.29	UCART1	9.24
2,063	638246.16	4271592.29	UCART1	9.14
2,064	638286.16	4271592.29	UCART1	9.14
2,065	638326.16	4271592.29	UCART1	9.14
2,066	638366.16	4271592.29	UCART1	9.14
2,067	633446.16	4271632.29	UCART1	7.63
2,068	633486.16	4271632.29	UCART1	7.69
2,069	633526.16	4271632.29	UCART1	7.75
2,070	633566.16	4271632.29	UCART1	7.85
2,071	633606.16	4271632.29	UCART1	7.92
2,072	633646.16	4271632.29	UCART1	8.20
2,073	634046.16	4271632.29	UCART1	6.17
2,074	634086.16	4271632.29	UCART1	6.10
2,075	634126.16	4271632.29	UCART1	6.10
2,076	634166.16	4271632.29	UCART1	6.06
2,077	634206.16	4271632.29	UCART1	5.26
2,078	634246.16	4271632.29	UCART1	4.84
2,079	634286.16	4271632.29	UCART1	5.11
2,080	634326.16	4271632.29	UCART1	5.08
2,081	634366.16	4271632.29	UCART1	4.92
2,082	634406.16	4271632.29	UCART1	4.79

2,083	634446.16	4271632.29	UCART1	4.86
2,084	634486.16	4271632.29	UCART1	5.86
2,085	634526.16	4271632.29	UCART1	6.40
2,086	634566.16	4271632.29	UCART1	6.40
2,087	634606.16	4271632.29	UCART1	6.57
2,088	634646.16	4271632.29	UCART1	6.86
2,089	634686.16	4271632.29	UCART1	6.95
2,090	635086.16	4271632.29	UCART1	8.89
2,091	635126.16	4271632.29	UCART1	8.93
2,092	635166.16	4271632.29	UCART1	9.14
2,093	635286.16	4271632.29	UCART1	9.07
2,094	635326.16	4271632.29	UCART1	8.90
2,095	635366.16	4271632.29	UCART1	8.84
2,096	635406.16	4271632.29	UCART1	8.84
2,097	635446.16	4271632.29	UCART1	8.84
2,098	635486.16	4271632.29	UCART1	8.84
2,099	635526.16	4271632.29	UCART1	8.88
2,100	635566.16	4271632.29	UCART1	8.61
2,101	635606.16	4271632.29	UCART1	8.44
2,102	635646.16	4271632.29	UCART1	8.06
2,103	638046.16	4271632.29	UCART1	10.54
2,104	638086.16	4271632.29	UCART1	10.14
2,105	638126.16	4271632.29	UCART1	9.97
2,106	638166.16	4271632.29	UCART1	9.63
2,107	638206.16	4271632.29	UCART1	9.22
2,108	638246.16	4271632.29	UCART1	9.15
2,109	638286.16	4271632.29	UCART1	9.31
2,110	638326.16	4271632.29	UCART1	9.45
2,111	638366.16	4271632.29	UCART1	9.45
2,112	634126.16	4271672.29	UCART1	6.49
2,113	634166.16	4271672.29	UCART1	6.44
2,114	634206.16	4271672.29	UCART1	6.12
2,115	634246.16	4271672.29	UCART1	5.66
2,116	634286.16	4271672.29	UCART1	5.03
2,117	634326.16	4271672.29	UCART1	4.65
2,118	634366.16	4271672.29	UCART1	4.67
2,119	634406.16	4271672.29	UCART1	4.61
2,120	634446.16	4271672.29	UCART1	5.25

2,121	634486.16	4271672.29	UCART1	5.95
2,122	634526.16	4271672.29	UCART1	6.22
2,123	634566.16	4271672.29	UCART1	6.22
2,124	634606.16	4271672.29	UCART1	6.22
2,125	634646.16	4271672.29	UCART1	6.22
2,126	634686.16	4271672.29	UCART1	6.22
2,127	634726.16	4271672.29	UCART1	6.22
2,128	635206.16	4271672.29	UCART1	9.14
2,129	635246.16	4271672.29	UCART1	8.96
2,130	635286.16	4271672.29	UCART1	8.84
2,131	635326.16	4271672.29	UCART1	8.84
2,132	635366.16	4271672.29	UCART1	8.66
2,133	635406.16	4271672.29	UCART1	8.66
2,134	635446.16	4271672.29	UCART1	8.79
2,135	635486.16	4271672.29	UCART1	8.86
2,136	635526.16	4271672.29	UCART1	9.02
2,137	635566.16	4271672.29	UCART1	8.48
2,138	638046.16	4271672.29	UCART1	10.54
2,139	638086.16	4271672.29	UCART1	10.14
2,140	638126.16	4271672.29	UCART1	9.75
2,141	638166.16	4271672.29	UCART1	9.63
2,142	638206.16	4271672.29	UCART1	8.83
2,143	638246.16	4271672.29	UCART1	9.17
2,144	638286.16	4271672.29	UCART1	9.45
2,145	638326.16	4271672.29	UCART1	9.45
2,146	638366.16	4271672.29	UCART1	9.63
2,147	634166.16	4271712.29	UCART1	6.98
2,148	634206.16	4271712.29	UCART1	6.84
2,149	634246.16	4271712.29	UCART1	6.45
2,150	634286.16	4271712.29	UCART1	6.27
2,151	634326.16	4271712.29	UCART1	5.85
2,152	634366.16	4271712.29	UCART1	5.07
2,153	634406.16	4271712.29	UCART1	5.19
2,154	634446.16	4271712.29	UCART1	6.04
2,155	634486.16	4271712.29	UCART1	6.09
2,156	634526.16	4271712.29	UCART1	6.12
2,157	634566.16	4271712.29	UCART1	6.37
2,158	634606.16	4271712.29	UCART1	6.37

2,159	634646.16	4271712.29	UCART1	6.37
2,160	634686.16	4271712.29	UCART1	6.37
2,161	634726.16	4271712.29	UCART1	6.37
2,162	634766.16	4271712.29	UCART1	7.29
2,163	635166.16	4271712.29	UCART1	9.14
2,164	635206.16	4271712.29	UCART1	8.94
2,165	635246.16	4271712.29	UCART1	8.84
2,166	635286.16	4271712.29	UCART1	8.84
2,167	635326.16	4271712.29	UCART1	8.84
2,168	635366.16	4271712.29	UCART1	8.53
2,169	635406.16	4271712.29	UCART1	8.53
2,170	635446.16	4271712.29	UCART1	8.55
2,171	635486.16	4271712.29	UCART1	8.86
2,172	635526.16	4271712.29	UCART1	8.91
2,173	638046.16	4271712.29	UCART1	10.10
2,174	638086.16	4271712.29	UCART1	9.86
2,175	638126.16	4271712.29	UCART1	9.73
2,176	638166.16	4271712.29	UCART1	9.46
2,177	638206.16	4271712.29	UCART1	7.93
2,178	638326.16	4271712.29	UCART1	9.65
2,179	638366.16	4271712.29	UCART1	9.77
2,180	634246.16	4271752.29	UCART1	6.94
2,181	634286.16	4271752.29	UCART1	6.47
2,182	634326.16	4271752.29	UCART1	6.31
2,183	634366.16	4271752.29	UCART1	6.17
2,184	634406.16	4271752.29	UCART1	6.20
2,185	634446.16	4271752.29	UCART1	6.55
2,186	634486.16	4271752.29	UCART1	6.55
2,187	634526.16	4271752.29	UCART1	6.78
2,188	634566.16	4271752.29	UCART1	6.78
2,189	634606.16	4271752.29	UCART1	6.78
2,190	634646.16	4271752.29	UCART1	6.76
2,191	634686.16	4271752.29	UCART1	6.48
2,192	634726.16	4271752.29	UCART1	6.48
2,193	634766.16	4271752.29	UCART1	7.05
2,194	634806.16	4271752.29	UCART1	7.45
2,195	635166.16	4271752.29	UCART1	8.84
2,196	635206.16	4271752.29	UCART1	8.84

2,197	635246.16	4271752.29	UCART1	8.84
2,198	635286.16	4271752.29	UCART1	8.84
2,199	635326.16	4271752.29	UCART1	8.61
2,200	635366.16	4271752.29	UCART1	8.53
2,201	635406.16	4271752.29	UCART1	8.37
2,202	635446.16	4271752.29	UCART1	8.17
2,203	638046.16	4271752.29	UCART1	9.75
2,204	638086.16	4271752.29	UCART1	9.75
2,205	638126.16	4271752.29	UCART1	9.73
2,206	638166.16	4271752.29	UCART1	8.93
2,207	633726.16	4271792.29	UCART1	7.22
2,208	634406.16	4271792.29	UCART1	6.95
2,209	634446.16	4271792.29	UCART1	7.19
2,210	634486.16	4271792.29	UCART1	7.19
2,211	634526.16	4271792.29	UCART1	7.19
2,212	634566.16	4271792.29	UCART1	7.19
2,213	634606.16	4271792.29	UCART1	7.19
2,214	634646.16	4271792.29	UCART1	7.18
2,215	634686.16	4271792.29	UCART1	6.99
2,216	634726.16	4271792.29	UCART1	6.88
2,217	634766.16	4271792.29	UCART1	7.03
2,218	634806.16	4271792.29	UCART1	7.32
2,219	634846.16	4271792.29	UCART1	7.54
2,220	635046.16	4271792.29	UCART1	9.07
2,221	635086.16	4271792.29	UCART1	9.00
2,222	635206.16	4271792.29	UCART1	9.02
2,223	635246.16	4271792.29	UCART1	9.02
2,224	635286.16	4271792.29	UCART1	8.94
2,225	635326.16	4271792.29	UCART1	8.74
2,226	635366.16	4271792.29	UCART1	8.69
2,227	635406.16	4271792.29	UCART1	8.26
2,228	638046.16	4271792.29	UCART1	9.68
2,229	638086.16	4271792.29	UCART1	9.58
2,230	638126.16	4271792.29	UCART1	9.72
2,231	638166.16	4271792.29	UCART1	8.78
2,232	638206.16	4271792.29	UCART1	8.99
2,233	638246.16	4271792.29	UCART1	9.46
2,234	638286.16	4271792.29	UCART1	9.68

2,235	638326.16	4271792.29	UCART1	9.88
2,236	638366.16	4271792.29	UCART1	10.08
2,237	634686.16	4271832.29	UCART1	7.47
2,238	634726.16	4271832.29	UCART1	7.29
2,239	634766.16	4271832.29	UCART1	7.29
2,240	634806.16	4271832.29	UCART1	7.32
2,241	634846.16	4271832.29	UCART1	7.34
2,242	635006.16	4271832.29	UCART1	9.16
2,243	635046.16	4271832.29	UCART1	9.30
2,244	635126.16	4271832.29	UCART1	9.42
2,245	635166.16	4271832.29	UCART1	9.42
2,246	635206.16	4271832.29	UCART1	9.42
2,247	635246.16	4271832.29	UCART1	9.42
2,248	635286.16	4271832.29	UCART1	9.30
2,249	635326.16	4271832.29	UCART1	9.12
2,250	635366.16	4271832.29	UCART1	9.12
2,251	638126.16	4271832.29	UCART1	9.05
2,252	638166.16	4271832.29	UCART1	7.98
2,253	638206.16	4271832.29	UCART1	9.36
2,254	638246.16	4271832.29	UCART1	9.47
2,255	638286.16	4271832.29	UCART1	9.87
2,256	638326.16	4271832.29	UCART1	10.05
2,257	638366.16	4271832.29	UCART1	10.34
2,258	635006.16	4271872.29	UCART1	8.60
2,259	635046.16	4271872.29	UCART1	8.54
2,260	635086.16	4271872.29	UCART1	8.99
2,261	635126.16	4271872.29	UCART1	9.47
2,262	635166.16	4271872.29	UCART1	9.68
2,263	635206.16	4271872.29	UCART1	9.68
2,264	635246.16	4271872.29	UCART1	9.45
2,265	635286.16	4271872.29	UCART1	9.32
2,266	635326.16	4271872.29	UCART1	9.09
2,267	638126.16	4271872.29	UCART1	8.05
2,268	638166.16	4271872.29	UCART1	8.90
2,269	638206.16	4271872.29	UCART1	9.39
2,270	638246.16	4271872.29	UCART1	9.76
2,271	638286.16	4271872.29	UCART1	9.92
2,272	638326.16	4271872.29	UCART1	10.11

2,273	638366.16	4271872.29	UCART1	10.39
2,274	635046.16	4271912.29	UCART1	7.92
2,275	635086.16	4271912.29	UCART1	8.67
2,276	635126.16	4271912.29	UCART1	9.27
2,277	635166.16	4271912.29	UCART1	9.27
2,278	635206.16	4271912.29	UCART1	9.27
2,279	635246.16	4271912.29	UCART1	9.11
2,280	635286.16	4271912.29	UCART1	9.15
2,281	638126.16	4271912.29	UCART1	9.32
2,282	638166.16	4271912.29	UCART1	9.37
2,283	638206.16	4271912.29	UCART1	9.58
2,284	638246.16	4271912.29	UCART1	9.78
2,285	638286.16	4271912.29	UCART1	10.06
2,286	638326.16	4271912.29	UCART1	10.28
2,287	638366.16	4271912.29	UCART1	10.55
2,288	635126.16	4271952.29	UCART1	9.14
2,289	635166.16	4271952.29	UCART1	9.14
2,290	635206.16	4271952.29	UCART1	9.14
2,291	635246.16	4271952.29	UCART1	8.84
2,292	638206.16	4271952.29	UCART1	9.75
2,293	638246.16	4271952.29	UCART1	10.03
2,294	638286.16	4271952.29	UCART1	10.17
2,295	638326.16	4271952.29	UCART1	10.36
2,296	638366.16	4271952.29	UCART1	10.67
2,297	635166.16	4271992.29	UCART1	9.07
2,298	635206.16	4271992.29	UCART1	9.01
2,299	638046.16	4271992.29	UCART1	9.52
2,300	638086.16	4271992.29	UCART1	9.52
2,301	638126.16	4271992.29	UCART1	9.75
2,302	638166.16	4271992.29	UCART1	9.78
2,303	638206.16	4271992.29	UCART1	9.83
2,304	638246.16	4271992.29	UCART1	10.06
2,305	638286.16	4271992.29	UCART1	10.18
2,306	638326.16	4271992.29	UCART1	10.36
2,307	638366.16	4271992.29	UCART1	10.69
2,308	638046.16	4272032.29	UCART1	9.83
2,309	638086.16	4272032.29	UCART1	9.93
2,310	638126.16	4272032.29	UCART1	9.93

2,311	638166.16	4272032.29	UCART1	9.98
2,312	638206.16	4272032.29	UCART1	10.06
2,313	638246.16	4272032.29	UCART1	10.07
2,314	638286.16	4272032.29	UCART1	10.29
2,315	638326.16	4272032.29	UCART1	10.36
2,316	638366.16	4272032.29	UCART1	10.69
2,317	638046.16	4272072.29	UCART1	10.04
2,318	638086.16	4272072.29	UCART1	10.06
2,319	638126.16	4272072.29	UCART1	10.06
2,320	638166.16	4272072.29	UCART1	10.06
2,321	638206.16	4272072.29	UCART1	10.06
2,322	638246.16	4272072.29	UCART1	10.34
2,323	638286.16	4272072.29	UCART1	10.36
2,324	638326.16	4272072.29	UCART1	10.57
2,325	638366.16	4272072.29	UCART1	10.69
2,326	633966.16	4272112.29	UCART1	9.55
2,327	638046.16	4272112.29	UCART1	10.36
2,328	638086.16	4272112.29	UCART1	10.36
2,329	638126.16	4272112.29	UCART1	10.36
2,330	638286.16	4272112.29	UCART1	10.36
2,331	638326.16	4272112.29	UCART1	10.36
2,332	638366.16	4272112.29	UCART1	10.67
2,333	638286.16	4272152.29	UCART1	10.36
2,334	638326.16	4272152.29	UCART1	10.36
2,335	638366.16	4272152.29	UCART1	10.67
2,336	638286.16	4272192.29	UCART1	10.36
2,337	638326.16	4272192.29	UCART1	10.36
2,338	638366.16	4272192.29	UCART1	10.67
2,339	634966.16	4272232.29	UCART1	9.39
2,340	638286.16	4272232.29	UCART1	10.67
2,341	638326.16	4272232.29	UCART1	10.67
2,342	638366.16	4272232.29	UCART1	10.67
2,343	634966.16	4272272.29	UCART1	8.10
2,344	638286.16	4272272.29	UCART1	10.67
2,345	638326.16	4272272.29	UCART1	10.67
2,346	638366.16	4272272.29	UCART1	10.67
2,347	634926.16	4272312.29	UCART1	7.97
2,348	634966.16	4272312.29	UCART1	7.93

2,349	638286.16	4272312.29	UCART1	10.67
2,350	638326.16	4272312.29	UCART1	10.87
2,351	638366.16	4272312.29	UCART1	10.95
2,352	638126.16	4272392.29	UCART1	12.06
2,353	638166.16	4272392.29	UCART1	12.06
2,354	638206.16	4272392.29	UCART1	12.06
2,355	638246.16	4272392.29	UCART1	12.04
2,356	638286.16	4272392.29	UCART1	11.76
2,357	638326.16	4272392.29	UCART1	11.89
2,358	638366.16	4272392.29	UCART1	11.92
2,359	638126.16	4272432.29	UCART1	12.47
2,360	638166.16	4272432.29	UCART1	12.36
2,361	638206.16	4272432.29	UCART1	12.19
2,362	638246.16	4272432.29	UCART1	12.19
2,363	638286.16	4272432.29	UCART1	12.17
2,364	638326.16	4272432.29	UCART1	12.19
2,365	638366.16	4272432.29	UCART1	12.19
2,366	638126.16	4272472.29	UCART1	12.50
2,367	638166.16	4272472.29	UCART1	12.50
2,368	638206.16	4272472.29	UCART1	12.50
2,369	638246.16	4272472.29	UCART1	12.43
2,370	638286.16	4272472.29	UCART1	12.50
2,371	638326.16	4272472.29	UCART1	12.50
2,372	638366.16	4272472.29	UCART1	12.26
2,373	638126.16	4272512.29	UCART1	12.66
2,374	638166.16	4272512.29	UCART1	12.57
2,375	638206.16	4272512.29	UCART1	12.41
2,376	638246.16	4272512.29	UCART1	12.04
2,377	638286.16	4272512.29	UCART1	12.32
2,378	638326.16	4272512.29	UCART1	12.45
2,379	638366.16	4272512.29	UCART1	12.49
2,380	638126.16	4272552.29	UCART1	12.78
2,381	638166.16	4272552.29	UCART1	12.39
2,382	638206.16	4272552.29	UCART1	11.59
2,383	638246.16	4272552.29	UCART1	11.14
2,384	638326.16	4272552.29	UCART1	12.49
2,385	638366.16	4272552.29	UCART1	12.50
2,386	638046.16	4272592.29	UCART1	10.25

2,387	638086.16	4272592.29	UCART1	11.08
2,388	638126.16	4272592.29	UCART1	11.12
2,389	638166.16	4272592.29	UCART1	10.87
2,390	638206.16	4272592.29	UCART1	10.65
2,391	638246.16	4272592.29	UCART1	11.06
2,392	638326.16	4272592.29	UCART1	12.48
2,393	638366.16	4272592.29	UCART1	12.50
2,394	638046.16	4272632.29	UCART1	9.11
2,395	638086.16	4272632.29	UCART1	9.83
2,396	638126.16	4272632.29	UCART1	10.66
2,397	638166.16	4272632.29	UCART1	10.47
2,398	638206.16	4272632.29	UCART1	10.59
2,399	638246.16	4272632.29	UCART1	11.04
2,400	638326.16	4272632.29	UCART1	12.42
2,401	638366.16	4272632.29	UCART1	12.68
2,402	638046.16	4272672.29	UCART1	9.87
2,403	638086.16	4272672.29	UCART1	10.79
2,404	638126.16	4272672.29	UCART1	10.95
2,405	638166.16	4272672.29	UCART1	10.82
2,406	638206.16	4272672.29	UCART1	10.46
2,407	638246.16	4272672.29	UCART1	10.70
2,408	638326.16	4272672.29	UCART1	11.99
2,409	638366.16	4272672.29	UCART1	12.54
2,410	638046.16	4272712.29	UCART1	10.76
2,411	638086.16	4272712.29	UCART1	11.52
2,412	638126.16	4272712.29	UCART1	11.64
2,413	638166.16	4272712.29	UCART1	11.21
2,414	638206.16	4272712.29	UCART1	10.67
2,415	638246.16	4272712.29	UCART1	10.74
2,416	638326.16	4272712.29	UCART1	11.18
2,417	638366.16	4272712.29	UCART1	12.21
2,418	638046.16	4272752.29	UCART1	11.78
2,419	638086.16	4272752.29	UCART1	12.03
2,420	638126.16	4272752.29	UCART1	12.06
2,421	638166.16	4272752.29	UCART1	12.01
2,422	638206.16	4272752.29	UCART1	11.84
2,423	638246.16	4272752.29	UCART1	11.49
2,424	638326.16	4272752.29	UCART1	10.76

2,425	638366.16	4272752.29	UCART1	12.04
2,426	638206.16	4272792.29	UCART1	12.26
2,427	638246.16	4272792.29	UCART1	12.16
2,428	638326.16	4272792.29	UCART1	11.38
2,429	638366.16	4272792.29	UCART1	11.91
2,430	638206.16	4272832.29	UCART1	12.42
2,431	638246.16	4272832.29	UCART1	12.50
2,432	638326.16	4272832.29	UCART1	12.10
2,433	638366.16	4272832.29	UCART1	11.98
2,434	638246.16	4272872.29	UCART1	12.50
2,435	638326.16	4272872.29	UCART1	12.40
2,436	638366.16	4272872.29	UCART1	12.37
2,437	638246.16	4272912.29	UCART1	12.50
2,438	638326.16	4272912.29	UCART1	12.70
2,439	638366.16	4272912.29	UCART1	12.78
2,440	638246.16	4272952.29	UCART1	12.43
2,441	638326.16	4272952.29	UCART1	12.80
2,442	638366.16	4272952.29	UCART1	12.89
2,443	638126.16	4272992.29	UCART1	11.15
2,444	638166.16	4272992.29	UCART1	10.71
2,445	638206.16	4272992.29	UCART1	10.99
2,446	638246.16	4272992.29	UCART1	12.21
2,447	638326.16	4272992.29	UCART1	12.80
2,448	638366.16	4272992.29	UCART1	13.11
2,449	638046.16	4273032.29	UCART1	10.40
2,450	638086.16	4273032.29	UCART1	11.63
2,451	638126.16	4273032.29	UCART1	12.55
2,452	638166.16	4273032.29	UCART1	12.08
2,453	638206.16	4273032.29	UCART1	11.20
2,454	638246.16	4273032.29	UCART1	12.21
2,455	638326.16	4273032.29	UCART1	12.52
2,456	638366.16	4273032.29	UCART1	12.85
2,457	638046.16	4273072.29	UCART1	10.39
2,458	638086.16	4273072.29	UCART1	10.84
2,459	638126.16	4273072.29	UCART1	11.59
2,460	638166.16	4273072.29	UCART1	11.31
2,461	638206.16	4273072.29	UCART1	10.90
2,462	638246.16	4273072.29	UCART1	12.06

2,463	638326.16	4273072.29	UCART1	12.18
2,464	638366.16	4273072.29	UCART1	12.47
2,465	635886.16	4273112.29	UCART1	7.92
2,466	635926.16	4273112.29	UCART1	8.06
2,467	635966.16	4273112.29	UCART1	8.10
2,468	636006.16	4273112.29	UCART1	8.10
2,469	636046.16	4273112.29	UCART1	8.10
2,470	636086.16	4273112.29	UCART1	8.10
2,471	636126.16	4273112.29	UCART1	8.15
2,472	636166.16	4273112.29	UCART1	8.23
2,473	636206.16	4273112.29	UCART1	8.53
2,474	636246.16	4273112.29	UCART1	8.66
2,475	636286.16	4273112.29	UCART1	8.84
2,476	636326.16	4273112.29	UCART1	8.84
2,477	637366.16	4273112.29	UCART1	12.79
2,478	638046.16	4273112.29	UCART1	10.84
2,479	638086.16	4273112.29	UCART1	10.71
2,480	638126.16	4273112.29	UCART1	10.29
2,481	638166.16	4273112.29	UCART1	9.67
2,482	638206.16	4273112.29	UCART1	9.91
2,483	638246.16	4273112.29	UCART1	11.25
2,484	638326.16	4273112.29	UCART1	11.66
2,485	638366.16	4273112.29	UCART1	12.08
2,486	635806.16	4273152.29	UCART1	8.20
2,487	635846.16	4273152.29	UCART1	8.20
2,488	635886.16	4273152.29	UCART1	8.20
2,489	635926.16	4273152.29	UCART1	8.22
2,490	635966.16	4273152.29	UCART1	8.23
2,491	636006.16	4273152.29	UCART1	8.23
2,492	636046.16	4273152.29	UCART1	8.23
2,493	636086.16	4273152.29	UCART1	8.23
2,494	636126.16	4273152.29	UCART1	8.23
2,495	636166.16	4273152.29	UCART1	8.23
2,496	636206.16	4273152.29	UCART1	8.53
2,497	636246.16	4273152.29	UCART1	8.66
2,498	636286.16	4273152.29	UCART1	8.84
2,499	636326.16	4273152.29	UCART1	8.84
2,500	635726.16	4273192.29	UCART1	9.07

2,501	635766.16	4273192.29	UCART1	8.88
2,502	635806.16	4273192.29	UCART1	8.38
2,503	635846.16	4273192.29	UCART1	8.30
2,504	635886.16	4273192.29	UCART1	8.30
2,505	635926.16	4273192.29	UCART1	8.47
2,506	635966.16	4273192.29	UCART1	8.53
2,507	636006.16	4273192.29	UCART1	8.44
2,508	636046.16	4273192.29	UCART1	8.25
2,509	636086.16	4273192.29	UCART1	8.23
2,510	636126.16	4273192.29	UCART1	8.23
2,511	636166.16	4273192.29	UCART1	8.28
2,512	636206.16	4273192.29	UCART1	8.56
2,513	636246.16	4273192.29	UCART1	8.84
2,514	636286.16	4273192.29	UCART1	8.89
2,515	636326.16	4273192.29	UCART1	8.91
2,516	635606.16	4273232.29	UCART1	8.15
2,517	635646.16	4273232.29	UCART1	8.89
2,518	635686.16	4273232.29	UCART1	8.92
2,519	635726.16	4273232.29	UCART1	8.84
2,520	635766.16	4273232.29	UCART1	8.84
2,521	635806.16	4273232.29	UCART1	8.61
2,522	635846.16	4273232.29	UCART1	8.53
2,523	635886.16	4273232.29	UCART1	8.53
2,524	635926.16	4273232.29	UCART1	8.53
2,525	635966.16	4273232.29	UCART1	8.70
2,526	636006.16	4273232.29	UCART1	8.53
2,527	636046.16	4273232.29	UCART1	8.44
2,528	636086.16	4273232.29	UCART1	8.23
2,529	636126.16	4273232.29	UCART1	8.30
2,530	636166.16	4273232.29	UCART1	8.50
2,531	636206.16	4273232.29	UCART1	8.56
2,532	636246.16	4273232.29	UCART1	8.91
2,533	636286.16	4273232.29	UCART1	9.11
2,534	636326.16	4273232.29	UCART1	9.14
2,535	636366.16	4273232.29	UCART1	9.02
2,536	635606.16	4273272.29	UCART1	8.53
2,537	635646.16	4273272.29	UCART1	8.96
2,538	635686.16	4273272.29	UCART1	8.92

2,539	635726.16	4273272.29	UCART1	8.84
2,540	635766.16	4273272.29	UCART1	8.84
2,541	635806.16	4273272.29	UCART1	8.82
2,542	635846.16	4273272.29	UCART1	8.81
2,543	635886.16	4273272.29	UCART1	8.81
2,544	635926.16	4273272.29	UCART1	8.81
2,545	635966.16	4273272.29	UCART1	8.84
2,546	636006.16	4273272.29	UCART1	8.70
2,547	636046.16	4273272.29	UCART1	8.53
2,548	636086.16	4273272.29	UCART1	8.23
2,549	636126.16	4273272.29	UCART1	8.24
2,550	636166.16	4273272.29	UCART1	8.46
2,551	636206.16	4273272.29	UCART1	8.81
2,552	636246.16	4273272.29	UCART1	8.96
2,553	636286.16	4273272.29	UCART1	9.14
2,554	636326.16	4273272.29	UCART1	9.14
2,555	636366.16	4273272.29	UCART1	9.02
2,556	636406.16	4273272.29	UCART1	8.84
2,557	635646.16	4273312.29	UCART1	9.14
2,558	635686.16	4273312.29	UCART1	8.97
2,559	635726.16	4273312.29	UCART1	8.84
2,560	635766.16	4273312.29	UCART1	8.84
2,561	635806.16	4273312.29	UCART1	8.84
2,562	635846.16	4273312.29	UCART1	8.84
2,563	635886.16	4273312.29	UCART1	8.84
2,564	635926.16	4273312.29	UCART1	8.89
2,565	635966.16	4273312.29	UCART1	8.91
2,566	636006.16	4273312.29	UCART1	8.75
2,567	636046.16	4273312.29	UCART1	8.55
2,568	636086.16	4273312.29	UCART1	8.45
2,569	636126.16	4273312.29	UCART1	8.40
2,570	636166.16	4273312.29	UCART1	8.53
2,571	636206.16	4273312.29	UCART1	8.84
2,572	636246.16	4273312.29	UCART1	8.96
2,573	636286.16	4273312.29	UCART1	9.14
2,574	636326.16	4273312.29	UCART1	9.14
2,575	636366.16	4273312.29	UCART1	9.14
2,576	636406.16	4273312.29	UCART1	8.92

2,577	636446.16	4273312.29	UCART1	8.84
2,578	636486.16	4273312.29	UCART1	8.84
2,579	638206.16	4273312.29	UCART1	10.20
2,580	638246.16	4273312.29	UCART1	11.91
2,581	638286.16	4273312.29	UCART1	12.32
2,582	638326.16	4273312.29	UCART1	12.50
2,583	638366.16	4273312.29	UCART1	12.50
2,584	635686.16	4273352.29	UCART1	9.14
2,585	635726.16	4273352.29	UCART1	9.00
2,586	635766.16	4273352.29	UCART1	8.84
2,587	635806.16	4273352.29	UCART1	8.84
2,588	635846.16	4273352.29	UCART1	8.85
2,589	635886.16	4273352.29	UCART1	9.02
2,590	635926.16	4273352.29	UCART1	9.11
2,591	635966.16	4273352.29	UCART1	9.13
2,592	636006.16	4273352.29	UCART1	8.94
2,593	636046.16	4273352.29	UCART1	8.61
2,594	636086.16	4273352.29	UCART1	8.42
2,595	636126.16	4273352.29	UCART1	8.53
2,596	636166.16	4273352.29	UCART1	8.53
2,597	636206.16	4273352.29	UCART1	8.85
2,598	636246.16	4273352.29	UCART1	9.07
2,599	636286.16	4273352.29	UCART1	9.14
2,600	636326.16	4273352.29	UCART1	9.14
2,601	636366.16	4273352.29	UCART1	9.14
2,602	636406.16	4273352.29	UCART1	8.92
2,603	636446.16	4273352.29	UCART1	8.84
2,604	636486.16	4273352.29	UCART1	8.84
2,605	636526.16	4273352.29	UCART1	8.84
2,606	636566.16	4273352.29	UCART1	9.14
2,607	636606.16	4273352.29	UCART1	9.14
2,608	638206.16	4273352.29	UCART1	10.30
2,609	638246.16	4273352.29	UCART1	11.76
2,610	638286.16	4273352.29	UCART1	12.42
2,611	638326.16	4273352.29	UCART1	12.63
2,612	638366.16	4273352.29	UCART1	12.66
2,613	635766.16	4273392.29	UCART1	9.12
2,614	635806.16	4273392.29	UCART1	9.12

2,615	635846.16	4273392.29	UCART1	8.86
2,616	635886.16	4273392.29	UCART1	9.26
2,617	635926.16	4273392.29	UCART1	9.42
2,618	635966.16	4273392.29	UCART1	9.40
2,619	636006.16	4273392.29	UCART1	9.13
2,620	636046.16	4273392.29	UCART1	8.69
2,621	636086.16	4273392.29	UCART1	8.51
2,622	636126.16	4273392.29	UCART1	8.37
2,623	636166.16	4273392.29	UCART1	8.53
2,624	636206.16	4273392.29	UCART1	8.86
2,625	636246.16	4273392.29	UCART1	9.14
2,626	636286.16	4273392.29	UCART1	9.14
2,627	636326.16	4273392.29	UCART1	9.14
2,628	636366.16	4273392.29	UCART1	9.14
2,629	636406.16	4273392.29	UCART1	9.12
2,630	636446.16	4273392.29	UCART1	8.84
2,631	636486.16	4273392.29	UCART1	8.95
2,632	636526.16	4273392.29	UCART1	9.12
2,633	636566.16	4273392.29	UCART1	9.14
2,634	636606.16	4273392.29	UCART1	9.26
2,635	636646.16	4273392.29	UCART1	9.65
2,636	635806.16	4273432.29	UCART1	8.91
2,637	635846.16	4273432.29	UCART1	9.07
2,638	635886.16	4273432.29	UCART1	9.27
2,639	635926.16	4273432.29	UCART1	9.50
2,640	635966.16	4273432.29	UCART1	9.80
2,641	636006.16	4273432.29	UCART1	9.34
2,642	636046.16	4273432.29	UCART1	9.07
2,643	636086.16	4273432.29	UCART1	8.60
2,644	636126.16	4273432.29	UCART1	8.53
2,645	636166.16	4273432.29	UCART1	8.53
2,646	636206.16	4273432.29	UCART1	8.86
2,647	636246.16	4273432.29	UCART1	9.14
2,648	636286.16	4273432.29	UCART1	9.14
2,649	636326.16	4273432.29	UCART1	9.21
2,650	636366.16	4273432.29	UCART1	9.14
2,651	636406.16	4273432.29	UCART1	9.14
2,652	636446.16	4273432.29	UCART1	9.14

2,653	636486.16	4273432.29	UCART1	9.14
2,654	636526.16	4273432.29	UCART1	9.20
2,655	636566.16	4273432.29	UCART1	9.24
2,656	636606.16	4273432.29	UCART1	9.48
2,657	636646.16	4273432.29	UCART1	9.92
2,658	636686.16	4273432.29	UCART1	10.16
2,659	638006.16	4273432.29	UCART1	12.59
2,660	638046.16	4273432.29	UCART1	12.88
2,661	638086.16	4273432.29	UCART1	12.88
2,662	638126.16	4273432.29	UCART1	12.76
2,663	638166.16	4273432.29	UCART1	10.54
2,664	638206.16	4273432.29	UCART1	10.42
2,665	638246.16	4273432.29	UCART1	11.70
2,666	638286.16	4273432.29	UCART1	12.64
2,667	638326.16	4273432.29	UCART1	13.63
2,668	638366.16	4273432.29	UCART1	13.44
2,669	635846.16	4273472.29	UCART1	8.53
2,670	635886.16	4273472.29	UCART1	9.34
2,671	635926.16	4273472.29	UCART1	9.98
2,672	635966.16	4273472.29	UCART1	10.07
2,673	636006.16	4273472.29	UCART1	10.18
2,674	636046.16	4273472.29	UCART1	10.01
2,675	636086.16	4273472.29	UCART1	9.33
2,676	636126.16	4273472.29	UCART1	8.82
2,677	636166.16	4273472.29	UCART1	8.71
2,678	636206.16	4273472.29	UCART1	8.86
2,679	636246.16	4273472.29	UCART1	9.14
2,680	636286.16	4273472.29	UCART1	9.14
2,681	636326.16	4273472.29	UCART1	9.26
2,682	636366.16	4273472.29	UCART1	9.14
2,683	636406.16	4273472.29	UCART1	9.14
2,684	636446.16	4273472.29	UCART1	9.14
2,685	636606.16	4273472.29	UCART1	9.75
2,686	636646.16	4273472.29	UCART1	10.16
2,687	636686.16	4273472.29	UCART1	10.55
2,688	636726.16	4273472.29	UCART1	10.62
2,689	637606.16	4273472.29	UCART1	13.28
2,690	637646.16	4273472.29	UCART1	13.16

2,691	637686.16	4273472.29	UCART1	13.28
2,692	637726.16	4273472.29	UCART1	13.38
2,693	637766.16	4273472.29	UCART1	13.41
2,694	638006.16	4273472.29	UCART1	13.16
2,695	638046.16	4273472.29	UCART1	13.28
2,696	638086.16	4273472.29	UCART1	13.28
2,697	638126.16	4273472.29	UCART1	12.94
2,698	638166.16	4273472.29	UCART1	10.10
2,699	638206.16	4273472.29	UCART1	10.31
2,700	638246.16	4273472.29	UCART1	11.93
2,701	638286.16	4273472.29	UCART1	12.94
2,702	638326.16	4273472.29	UCART1	13.91
2,703	638366.16	4273472.29	UCART1	13.66
2,704	635926.16	4273512.29	UCART1	10.63
2,705	635966.16	4273512.29	UCART1	10.36
2,706	636006.16	4273512.29	UCART1	10.64
2,707	636046.16	4273512.29	UCART1	10.64
2,708	636086.16	4273512.29	UCART1	10.58
2,709	636126.16	4273512.29	UCART1	9.96
2,710	636166.16	4273512.29	UCART1	8.71
2,711	636206.16	4273512.29	UCART1	8.84
2,712	636246.16	4273512.29	UCART1	8.98
2,713	636286.16	4273512.29	UCART1	9.14
2,714	636326.16	4273512.29	UCART1	9.14
2,715	636366.16	4273512.29	UCART1	9.14
2,716	636646.16	4273512.29	UCART1	10.28
2,717	636686.16	4273512.29	UCART1	10.39
2,718	636726.16	4273512.29	UCART1	10.50
2,719	637606.16	4273512.29	UCART1	13.69
2,720	637646.16	4273512.29	UCART1	13.69
2,721	637686.16	4273512.29	UCART1	13.58
2,722	637726.16	4273512.29	UCART1	13.41
2,723	637766.16	4273512.29	UCART1	13.41
2,724	638006.16	4273512.29	UCART1	13.73
2,725	638046.16	4273512.29	UCART1	14.25
2,726	638086.16	4273512.29	UCART1	13.83
2,727	638126.16	4273512.29	UCART1	13.06
2,728	638166.16	4273512.29	UCART1	10.26

2,729	638206.16	4273512.29	UCART1	10.81
2,730	638246.16	4273512.29	UCART1	12.21
2,731	638286.16	4273512.29	UCART1	13.16
2,732	638326.16	4273512.29	UCART1	13.94
2,733	638366.16	4273512.29	UCART1	13.41
2,734	636006.16	4273552.29	UCART1	10.62
2,735	636046.16	4273552.29	UCART1	10.67
2,736	636086.16	4273552.29	UCART1	10.67
2,737	636126.16	4273552.29	UCART1	10.67
2,738	636166.16	4273552.29	UCART1	9.48
2,739	636206.16	4273552.29	UCART1	8.77
2,740	636246.16	4273552.29	UCART1	8.93
2,741	636286.16	4273552.29	UCART1	9.12
2,742	636326.16	4273552.29	UCART1	9.14
2,743	636606.16	4273552.29	UCART1	10.39
2,744	636646.16	4273552.29	UCART1	10.61
2,745	636686.16	4273552.29	UCART1	10.67
2,746	637606.16	4273552.29	UCART1	14.02
2,747	637646.16	4273552.29	UCART1	14.00
2,748	637686.16	4273552.29	UCART1	13.79
2,749	637726.16	4273552.29	UCART1	13.79
2,750	637766.16	4273552.29	UCART1	13.79
2,751	637806.16	4273552.29	UCART1	13.79
2,752	637846.16	4273552.29	UCART1	13.74
2,753	637886.16	4273552.29	UCART1	13.48
2,754	638006.16	4273552.29	UCART1	14.66
2,755	638046.16	4273552.29	UCART1	14.97
2,756	638086.16	4273552.29	UCART1	14.39
2,757	638126.16	4273552.29	UCART1	13.70
2,758	638166.16	4273552.29	UCART1	11.10
2,759	638206.16	4273552.29	UCART1	11.22
2,760	638246.16	4273552.29	UCART1	12.61
2,761	638286.16	4273552.29	UCART1	13.32
2,762	638326.16	4273552.29	UCART1	13.70
2,763	638366.16	4273552.29	UCART1	13.48
2,764	636086.16	4273592.29	UCART1	10.67
2,765	636126.16	4273592.29	UCART1	10.74
2,766	636166.16	4273592.29	UCART1	10.30

2,767	636206.16	4273592.29	UCART1	8.72	
2,768	636246.16	4273592.29	UCART1	8.84	
2,769	636286.16	4273592.29	UCART1	8.93	
2,770	636606.16	4273592.29	UCART1	10.59	
2,771	636646.16	4273592.29	UCART1	10.67	
2,772	636126.16	4273632.29	UCART1	10.68	
2,773	636166.16	4273632.29	UCART1	10.04	
2,774	636206.16	4273632.29	UCART1	8.84	
2,775	636246.16	4273632.29	UCART1	8.84	
2,776	636286.16	4273632.29	UCART1	8.84	

Plant Boundary Receptors

Receptor Pathway

Cartesian Plant Boundary

Primary

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	637060.45	4271428.10	FENCEPRI	10.38	
2	637144.17	4271358.02	FENCEPRI	9.75	
3	637162.34	4271343.09	FENCEPRI	9.87	
4	637135.08	4271306.75	FENCEPRI	9.76	
5	637139.62	4271298.32	FENCEPRI	9.81	
6	637089.66	4271236.67	FENCEPRI	9.46	
7	637081.22	4271243.81	FENCEPRI	9.47	
8	637067.59	4271229.53	FENCEPRI	9.45	
9	637059.81	4271238.62	FENCEPRI	9.45	
10	637073.43	4271249.65	FENCEPRI	9.45	
11	637066.29	4271258.73	FENCEPRI	9.45	
12	637118.86	4271320.38	FENCEPRI	9.75	
13	637127.94	4271313.89	FENCEPRI	9.75	
14	637148.71	4271343.74	FENCEPRI	9.81	
15	637056.56	4271416.42	FENCEPRI	10.36	
16	637022.17	4271432.00	FENCEPRI	9.97	
17	636978.69	4271445.62	FENCEPRI	9.69	
18	636955.98	4271450.17	FENCEPRI	9.42	
19	636917.69	4271450.17	FENCEPRI	9.14	
20	636833.33	4271442.38	FENCEPRI	9.14	
21	636745.08	4271433.94	FENCEPRI	9.14	
22	636680.83	4271428.10	FENCEPRI	9.14	
23	636581.44	4271417.55	FENCEPRI	9.14	
24	636489.30	4271410.24	FENCEPRI	7.97	
25	636414.70	4271411.70	FENCEPRI	7.96	
26	636354.74	4271414.63	FENCEPRI	7.93	
27	636300.62	4271426.33	FENCEPRI	7.92	
28	636223.10	4271438.03	FENCEPRI	7.99	
29	636094.39	4271457.04	FENCEPRI	7.80	
30	636012.48	4271474.59	FENCEPRI	7.93	
31	635929.33	4271498.57	FENCEPRI	7.93	
32	635832.80	4271536.60	FENCEPRI	7.91	
33	635781.60	4271558.54	FENCEPRI	8.01	
34	635723.10	4271595.11	FENCEPRI	7.93	
35	635651.43	4271653.62	FENCEPRI	7.93	
36	635569.52	4271716.51	FENCEPRI	8.24	
37	635497.85	4271763.32	FENCEPRI	8.03	
38	635436.41	4271813.05	FENCEPRI	7.89	
39	635348.66	4271899.34	FENCEPRI	8.45	

40	635268.21	4271978.33	FENCEPRI	8.45	
41	635193.61	4272048.53	FENCEPRI	8.10	
42	635154.12	4272082.18	FENCEPRI	8.15	
43	635102.93	4272026.59	FENCEPRI	9.54	
44	635079.53	4272063.16	FENCEPRI	9.86	
45	635082.45	4272093.88	FENCEPRI	9.30	
46	635098.54	4272123.13	FENCEPRI	8.42	
47	634974.21	4272202.11	FENCEPRI	10.14	
48	634974.21	4272285.48	FENCEPRI	7.92	
49	634930.33	4272330.83	FENCEPRI	7.76	
50	634921.56	4272320.59	FENCEPRI	7.87	
51	634928.87	4272304.50	FENCEPRI	8.08	
52	634934.72	4272289.87	FENCEPRI	8.26	
53	634931.80	4272284.02	FENCEPRI	8.37	
54	634917.17	4272305.96	FENCEPRI	8.10	
55	634904.01	4272329.36	FENCEPRI	7.88	
56	634871.47	4272348.56	FENCEPRI	7.89	
57	634810.04	4272377.81	FENCEPRI	7.85	
58	634769.08	4272389.52	FENCEPRI	7.78	
59	634694.49	4272382.20	FENCEPRI	7.85	
60	634631.59	4272373.43	FENCEPRI	7.94	
61	634552.61	4272366.11	FENCEPRI	8.01	
62	634441.44	4272325.16	FENCEPRI	7.97	
63	634296.63	4272265.19	FENCEPRI	7.97	
64	634129.89	4272187.66	FENCEPRI	8.23	
65	634042.07	4272147.14	FENCEPRI	8.46	
66	633982.39	4272112.33	FENCEPRI	9.88	
67	633962.49	4272091.19	FENCEPRI	10.09	
68	633951.30	4272065.08	FENCEPRI	10.15	
69	633941.36	4272027.78	FENCEPRI	9.51	
70	633933.90	4272001.67	FENCEPRI	8.68	
71	633921.46	4271975.56	FENCEPRI	7.34	
72	633901.57	4271955.67	FENCEPRI	6.14	
73	633868.00	4271940.75	FENCEPRI	6.90	
74	633826.97	4271932.05	FENCEPRI	7.48	
75	633808.32	4271923.34	FENCEPRI	7.32	
76	633788.43	4271908.42	FENCEPRI	7.32	
77	633774.75	4271891.02	FENCEPRI	7.28	
78	633753.62	4271827.61	FENCEPRI	6.91	
79	633710.10	4271690.84	FENCEPRI	10.38	
80	633693.34	4271700.25	FENCEPRI	10.00	
81	633765.12	4271898.78	FENCEPRI	7.23	
82	633786.50	4271928.55	FENCEPRI	7.40	

83	633803.29	4271938.48	FENCEPRI	7.72	
84	633831.55	4271943.06	FENCEPRI	7.70	
85	633860.56	4271946.88	FENCEPRI	7.22	
86	633881.94	4271952.99	FENCEPRI	6.57	
87	633908.67	4271972.84	FENCEPRI	7.09	
88	633921.65	4271994.22	FENCEPRI	8.47	
89	633931.57	4272030.87	FENCEPRI	9.97	
90	633937.68	4272053.01	FENCEPRI	10.19	
91	633918.59	4272053.01	FENCEPRI	10.37	
92	633911.72	4272097.30	FENCEPRI	8.95	
93	633956.01	4272101.12	FENCEPRI	9.86	
94	634007.93	4272137.00	FENCEPRI	8.70	
95	634056.79	4272161.44	FENCEPRI	8.15	
96	634114.06	4272189.69	FENCEPRI	8.23	
97	634214.87	4272236.41	FENCEPRI	7.75	
98	634313.68	4272280.42	FENCEPRI	8.18	
99	634496.05	4272358.58	FENCEPRI	8.09	
100	634555.34	4272374.75	FENCEPRI	7.93	
101	634637.98	4272384.63	FENCEPRI	7.77	
102	634746.68	4272396.31	FENCEPRI	7.71	
103	634773.23	4272395.49	FENCEPRI	7.72	
104	634790.10	4272394.19	FENCEPRI	7.73	
105	634810.87	4272389.00	FENCEPRI	7.54	
106	634828.40	4272381.21	FENCEPRI	7.57	
107	634845.92	4272371.47	FENCEPRI	7.74	
108	634857.61	4272363.03	FENCEPRI	7.74	
109	634873.18	4272355.89	FENCEPRI	7.81	
110	634888.11	4272350.05	FENCEPRI	7.78	
111	634923.16	4272339.02	FENCEPRI	7.68	
112	634929.00	4272338.37	FENCEPRI	7.69	
113	634948.48	4272324.09	FENCEPRI	7.83	
114	634975.09	4272301.37	FENCEPRI	7.91	
115	634991.31	4272270.22	FENCEPRI	7.90	
116	635047.80	4272253.61	FENCEPRI	3.16	
117	635110.71	4272224.35	FENCEPRI	3.05	
118	635172.16	4272170.22	FENCEPRI	3.05	
119	635251.15	4272095.61	FENCEPRI	3.05	
120	635343.32	4272006.37	FENCEPRI	3.05	
121	635421.88	4271924.43	FENCEPRI	3.05	
122	635515.51	4271824.95	FENCEPRI	4.46	
123	635571.11	4271789.83	FENCEPRI	5.40	
124	635606.22	4271772.28	FENCEPRI	3.42	
125	635606.22	4271732.78	FENCEPRI	7.53	

126	635629.63	4271716.68	FENCEPRI	7.43	
127	635620.85	4271693.28	FENCEPRI	7.88	
128	635689.39	4271635.05	FENCEPRI	7.84	
129	635729.62	4271600.14	FENCEPRI	7.87	
130	635767.57	4271575.74	FENCEPRI	7.98	
131	635798.41	4271560.83	FENCEPRI	7.82	
132	635851.61	4271538.13	FENCEPRI	7.81	
133	635882.74	4271523.78	FENCEPRI	7.73	
134	635911.76	4271512.32	FENCEPRI	7.83	
135	635954.53	4271498.57	FENCEPRI	7.76	
136	636030.91	4271477.95	FENCEPRI	7.89	
137	636077.50	4271468.02	FENCEPRI	7.74	
138	636174.50	4271455.80	FENCEPRI	6.19	
139	636228.73	4271448.17	FENCEPRI	7.89	
140	636300.52	4271434.42	FENCEPRI	7.92	
141	636374.61	4271422.20	FENCEPRI	7.87	
142	636470.85	4271418.38	FENCEPRI	7.89	
143	636535.00	4271419.91	FENCEPRI	9.10	
144	636617.49	4271428.31	FENCEPRI	9.14	
145	636772.15	4271443.25	FENCEPRI	9.14	
146	636825.01	4271448.54	FENCEPRI	9.14	
147	636866.24	4271451.71	FENCEPRI	9.14	
148	636909.58	4271457.00	FENCEPRI	9.14	
149	636940.24	4271459.11	FENCEPRI	9.23	
150	636961.38	4271458.05	FENCEPRI	9.39	
151	637012.13	4271446.42	FENCEPRI	9.75	

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	UCART2	Receptors generated from Uniform Cartesian Grid
3	UCART1	Receptors generated from Uniform Cartesian Grid

Receptor Pathway

Terrain Elevations and Flagpole Heights for Network Grids

Receptor Pathway

Multi-Tier Grid (Risk)

Fenceline Grid

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: ..\..\59 SMUD\AERMOD\MET\14-18.SFC

Format Type: Default AERMET format

Profile Met Data

Filename: ..\..\59 SMUD\AERMOD\MET\14-18.PFL

Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 835.15 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2014			SACRAMENTO/EXECUTIVE ARPT
Upper Air		2014			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2015 Start Hour: 1 End Date: 12/25/2018 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	■	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: SCENARIO1N.AD

Averaging Period	Source Group ID	High Value	File Name
1	SLINE	1st	01H1G001.PLT
1	VOL	1st	01H1G002.PLT
Period	SLINE	N/A	PE00G001.PLT
Period	VOL	N/A	PE00G002.PLT

Results Summary

C:\Users\shaurya.johari\OneDrive - Ascent Environmental\Desktop\Proj

PM10 - Concentration - Source Group: SLINE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	245.50052	ug/m^3	633606.16	4271032.29	7.62	0.00	7.62	12/24/2017, 9
PERIOD		14.07928	ug/m^3	637148.71	4271343.74	9.81	0.00	9.81	

PM10 - Concentration - Source Group: VOL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	428.58690	ug/m^3	635606.22	4271732.78	7.53	0.00	7.53	3/6/2018, 8
PERIOD		29.31511	ug/m^3	635154.12	4272082.18	8.15	0.00	8.15	

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_R	EGG_RISK
1	ALL		636726.2	4269592	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		636766.2	4269592	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		637006.2	4269592	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		637046.2	4269592	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		637086.2	4269592	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		637126.2	4269592	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		637166.2	4269592	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		637206.2	4269592	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		637246.2	4269592	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		637286.2	4269592	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		637326.2	4269592	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		636766.2	4269632	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		637006.2	4269632	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		637046.2	4269632	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		637086.2	4269632	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		637126.2	4269632	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		637166.2	4269632	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		637206.2	4269632	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		637246.2	4269632	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		637286.2	4269632	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		637326.2	4269632	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		636686.2	4269672	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		637006.2	4269672	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		637046.2	4269672	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		637086.2	4269672	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		637126.2	4269672	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		637166.2	4269672	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		637206.2	4269672	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		637246.2	4269672	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		637286.2	4269672	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		637326.2	4269672	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		636686.2	4269712	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		636726.2	4269712	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		636766.2	4269712	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		637046.2	4269712	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		637246.2	4269712	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		637286.2	4269712	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		637326.2	4269712	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		636686.2	4269752	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		636726.2	4269752	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		636766.2	4269752	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		636806.2	4269752	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		637006.2	4269752	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		637086.2	4269752	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		637126.2	4269752	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		637166.2	4269752	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		637286.2	4269752	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		637326.2	4269752	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		637646.2	4269752	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		637686.2	4269752	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		637726.2	4269752	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		637766.2	4269752	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		637806.2	4269752	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		636686.2	4269792	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		636726.2	4269792	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		636766.2	4269792	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		636806.2	4269792	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		636846.2	4269792	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		637046.2	4269792	3.28E-08	1YrCancerD	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		637086.2	4269792	2.82E-08	1YrCancerD	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		637126.2	4269792	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		637166.2	4269792	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		637286.2	4269792	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		637326.2	4269792	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		637646.2	4269792	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		637686.2	4269792	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		637726.2	4269792	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		637766.2	4269792	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		637806.2	4269792	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		636526.2	4269832	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		636566.2	4269832	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		636686.2	4269832	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		636726.2	4269832	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		636766.2	4269832	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		636806.2	4269832	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		636846.2	4269832	3.48E-08	1YrCancerD	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		636966.2	4269832	8.05E-08	1YrCancerD	8.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		637006.2	4269832	5.08E-08	1YrCancerD	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		637046.2	4269832	3.87E-08	1YrCancerD	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		637086.2	4269832	3.22E-08	1YrCancerD	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		637126.2	4269832	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		637166.2	4269832	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		637206.2	4269832	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		637246.2	4269832	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		637286.2	4269832	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		637326.2	4269832	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		637646.2	4269832	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		637686.2	4269832	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		637726.2	4269832	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL		637766.2	4269832	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL		637806.2	4269832	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL		636566.2	4269872	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL		636686.2	4269872	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL		636726.2	4269872	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL		636766.2	4269872	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL		636806.2	4269872	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL		636846.2	4269872	4.98E-08	1YrCancerD	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL		637006.2	4269872	6.83E-08	1YrCancerD	6.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL		637046.2	4269872	4.77E-08	1YrCancerD	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		637086.2	4269872	3.79E-08	1YrCancerD	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL		637126.2	4269872	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL		637166.2	4269872	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL		637206.2	4269872	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL		637246.2	4269872	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL		637286.2	4269872	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL		637646.2	4269872	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E

107	ALL	637686.2	4269872	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	637726.2	4269872	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	637766.2	4269872	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	637806.2	4269872	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	636566.2	4269912	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	636646.2	4269912	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	636686.2	4269912	1.88E-08	1YrCancerD	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	636726.2	4269912	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	636766.2	4269912	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	636806.2	4269912	3.75E-08	1YrCancerD	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	637046.2	4269912	6.62E-08	1YrCancerD	6.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	637086.2	4269912	4.77E-08	1YrCancerD	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	637126.2	4269912	3.83E-08	1YrCancerD	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	637166.2	4269912	3.29E-08	1YrCancerD	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	637206.2	4269912	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	637246.2	4269912	2.73E-08	1YrCancerD	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	637286.2	4269912	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	637606.2	4269912	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	637646.2	4269912	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	637686.2	4269912	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	637726.2	4269912	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	637766.2	4269912	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	637806.2	4269912	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	637086.2	4269952	6.88E-08	1YrCancerD	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	637126.2	4269952	4.94E-08	1YrCancerD	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	637166.2	4269952	4.06E-08	1YrCancerD	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	637206.2	4269952	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	637246.2	4269952	3.24E-08	1YrCancerD	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	637286.2	4269952	3.01E-08	1YrCancerD	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	637606.2	4269952	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	637646.2	4269952	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	637686.2	4269952	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	637726.2	4269952	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	637766.2	4269952	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	637806.2	4269952	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	637846.2	4269952	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	636766.2	4269992	3.58E-08	1YrCancerD	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	636806.2	4269992	6.12E-08	1YrCancerD	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	637086.2	4269992	1.46E-07	1YrCancerD	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	637126.2	4269992	7.60E-08	1YrCancerD	7.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	637166.2	4269992	5.74E-08	1YrCancerD	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	637206.2	4269992	4.77E-08	1YrCancerD	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	637246.2	4269992	4.18E-08	1YrCancerD	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	637286.2	4269992	3.81E-08	1YrCancerD	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	637606.2	4269992	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	637646.2	4269992	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	637686.2	4269992	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	637766.2	4269992	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	637806.2	4269992	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	637846.2	4269992	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	633686.2	4270032	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	633726.2	4270032	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	633766.2	4270032	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	633806.2	4270032	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	633846.2	4270032	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	636246.2	4270032	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	636286.2	4270032	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	636326.2	4270032	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	636366.2	4270032	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	636406.2	4270032	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	636766.2	4270032	4.25E-08	1YrCancerD	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	636806.2	4270032	8.21E-08	1YrCancerD	8.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	636886.2	4270032	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	636926.2	4270032	6.47E-08	1YrCancerD	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	636966.2	4270032	5.85E-08	1YrCancerD	5.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	637166.2	4270032	1.22E-07	1YrCancerD	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	637206.2	4270032	8.19E-08	1YrCancerD	8.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	637246.2	4270032	6.54E-08	1YrCancerD	6.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	637566.2	4270032	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	637606.2	4270032	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	637646.2	4270032	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	637686.2	4270032	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	637766.2	4270032	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	637806.2	4270032	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	637846.2	4270032	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	633566.2	4270072	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	633606.2	4270072	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	633646.2	4270072	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	633686.2	4270072	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	633726.2	4270072	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	633766.2	4270072	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	633806.2	4270072	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	633846.2	4270072	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	636246.2	4270072	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	636286.2	4270072	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	636326.2	4270072	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	636366.2	4270072	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	636406.2	4270072	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	636606.2	4270072	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	636646.2	4270072	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	636686.2	4270072	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	636726.2	4270072	3.58E-08	1YrCancerD	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	636766.2	4270072	5.16E-08	1YrCancerD	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	636806.2	4270072	1.19E-07	1YrCancerD	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	636846.2	4270072	2.32E-07	1YrCancerD	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	636886.2	4270072	8.27E-08	1YrCancerD	8.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	636926.2	4270072	5.61E-08	1YrCancerD	5.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	636966.2	4270072	4.91E-08	1YrCancerD	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	637006.2	4270072	5.12E-08	1YrCancerD	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	637046.2	4270072	6.17E-08	1YrCancerD	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	637086.2	4270072	8.65E-08	1YrCancerD	8.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+

214	ALL	637806.2	4270072	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	637846.2	4270072	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	637886.2	4270072	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	637926.2	4270072	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	637966.2	4270072	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	633606.2	4270112	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	633646.2	4270112	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	633686.2	4270112	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	633726.2	4270112	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	633766.2	4270112	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	633806.2	4270112	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	633846.2	4270112	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	636246.2	4270112	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	636286.2	4270112	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	636326.2	4270112	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	636406.2	4270112	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	636446.2	4270112	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	636606.2	4270112	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	636646.2	4270112	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	636686.2	4270112	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	636726.2	4270112	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	636766.2	4270112	6.58E-08	1YrCancerD	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	636806.2	4270112	2.09E-07	1YrCancerD	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	636846.2	4270112	1.48E-07	1YrCancerD	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	636886.2	4270112	6.89E-08	1YrCancerD	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	636926.2	4270112	4.96E-08	1YrCancerD	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	636966.2	4270112	4.30E-08	1YrCancerD	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	637006.2	4270112	4.25E-08	1YrCancerD	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	637046.2	4270112	4.63E-08	1YrCancerD	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	637086.2	4270112	5.42E-08	1YrCancerD	5.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	637126.2	4270112	6.56E-08	1YrCancerD	6.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	637166.2	4270112	7.93E-08	1YrCancerD	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	637206.2	4270112	1.00E-07	1YrCancerD	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	637246.2	4270112	1.24E-07	1YrCancerD	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	637566.2	4270112	6.58E-08	1YrCancerD	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	637606.2	4270112	5.13E-08	1YrCancerD	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	637646.2	4270112	4.04E-08	1YrCancerD	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	637686.2	4270112	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	637726.2	4270112	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	637806.2	4270112	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	637846.2	4270112	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	637886.2	4270112	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	637926.2	4270112	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	637966.2	4270112	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	633606.2	4270152	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	633646.2	4270152	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	633686.2	4270152	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	633726.2	4270152	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	633766.2	4270152	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	633806.2	4270152	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	633846.2	4270152	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	633886.2	4270152	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	636246.2	4270152	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	636286.2	4270152	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	636326.2	4270152	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	636406.2	4270152	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	636446.2	4270152	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	636606.2	4270152	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	636646.2	4270152	3.15E-08	1YrCancerD	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	636686.2	4270152	4.15E-08	1YrCancerD	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	636726.2	4270152	5.71E-08	1YrCancerD	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	636766.2	4270152	9.68E-08	1YrCancerD	9.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	636846.2	4270152	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	636886.2	4270152	5.82E-08	1YrCancerD	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	636926.2	4270152	4.43E-08	1YrCancerD	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	636966.2	4270152	3.87E-08	1YrCancerD	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	637006.2	4270152	3.72E-08	1YrCancerD	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	637046.2	4270152	3.83E-08	1YrCancerD	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	637086.2	4270152	4.14E-08	1YrCancerD	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	637126.2	4270152	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	637166.2	4270152	5.13E-08	1YrCancerD	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	637206.2	4270152	5.69E-08	1YrCancerD	5.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	637246.2	4270152	6.25E-08	1YrCancerD	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	637606.2	4270152	1.06E-07	1YrCancerD	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	637646.2	4270152	6.25E-08	1YrCancerD	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	637686.2	4270152	4.27E-08	1YrCancerD	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	637726.2	4270152	3.29E-08	1YrCancerD	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	637766.2	4270152	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	637846.2	4270152	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	637886.2	4270152	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	637926.2	4270152	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	637966.2	4270152	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	638006.2	4270152	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	633246.2	4270192	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	633286.2	4270192	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	633326.2	4270192	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	633486.2	4270192	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	633526.2	4270192	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	633566.2	4270192	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	633606.2	4270192	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	633646.2	4270192	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	633686.2	4270192	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	633726.2	4270192	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	633766.2	4270192	2.60E-08	1YrCancerD	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	633806.2	4270192	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	633846.2	4270192	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	633886.2	4270192	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	636246.2	4270192	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	636286.2	4270192	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	636326.2	4270192	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	636366.2	4270192	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	636406.2	4270192	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	636446.2	4270192	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	636566.2	4270192	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	636606.2	4270192	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	636646.2	4270192	4.10E-08	1YrCancerD	4.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	636686.2	4270192	5.93E-08	1YrCancerD	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+

321	ALL	636726.2	4270192	9.24E-08	1YrCancerD	9.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	636806.2	4270192	1.60E-07	1YrCancerD	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	636846.2	4270192	7.42E-08	1YrCancerD	7.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	637006.2	4270192	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	637046.2	4270192	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	637086.2	4270192	3.48E-08	1YrCancerD	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	637126.2	4270192	3.69E-08	1YrCancerD	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	637166.2	4270192	3.94E-08	1YrCancerD	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	637206.2	4270192	4.19E-08	1YrCancerD	4.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	637246.2	4270192	4.42E-08	1YrCancerD	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	637566.2	4270192	1.22E-07	1YrCancerD	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	637646.2	4270192	1.38E-07	1YrCancerD	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	637686.2	4270192	6.29E-08	1YrCancerD	6.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	637726.2	4270192	4.20E-08	1YrCancerD	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	637766.2	4270192	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	637806.2	4270192	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	637886.2	4270192	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	637926.2	4270192	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	637966.2	4270192	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	638006.2	4270192	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	633126.2	4270232	9.23E-09	1YrCancerD	9.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	633166.2	4270232	9.85E-09	1YrCancerD	9.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	633206.2	4270232	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	633486.2	4270232	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	633526.2	4270232	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	633566.2	4270232	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	633606.2	4270232	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	633766.2	4270232	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	633806.2	4270232	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	636246.2	4270232	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	636286.2	4270232	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	636326.2	4270232	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	636366.2	4270232	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	636406.2	4270232	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	636446.2	4270232	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	636566.2	4270232	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	636606.2	4270232	3.93E-08	1YrCancerD	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	636646.2	4270232	6.42E-08	1YrCancerD	6.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	636686.2	4270232	1.25E-07	1YrCancerD	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	636766.2	4270232	1.85E-07	1YrCancerD	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	636806.2	4270232	8.55E-08	1YrCancerD	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	636846.2	4270232	5.68E-08	1YrCancerD	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	636886.2	4270232	4.36E-08	1YrCancerD	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	636926.2	4270232	3.66E-08	1YrCancerD	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	636966.2	4270232	3.29E-08	1YrCancerD	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	637046.2	4270232	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	637086.2	4270232	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	637126.2	4270232	3.17E-08	1YrCancerD	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	637166.2	4270232	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	637206.2	4270232	3.43E-08	1YrCancerD	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	637246.2	4270232	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	637566.2	4270232	6.37E-08	1YrCancerD	6.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	637606.2	4270232	9.38E-08	1YrCancerD	9.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	637686.2	4270232	1.26E-07	1YrCancerD	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	637726.2	4270232	5.94E-08	1YrCancerD	5.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	637766.2	4270232	3.97E-08	1YrCancerD	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	637806.2	4270232	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	637886.2	4270232	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	637926.2	4270232	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	637966.2	4270232	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	638006.2	4270232	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	638046.2	4270232	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	633086.2	4270272	9.01E-09	1YrCancerD	9.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	633126.2	4270272	9.63E-09	1YrCancerD	9.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	633166.2	4270272	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	633206.2	4270272	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	633486.2	4270272	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	636286.2	4270272	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	636326.2	4270272	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	636366.2	4270272	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	636406.2	4270272	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	636446.2	4270272	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	636566.2	4270272	3.61E-08	1YrCancerD	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	636606.2	4270272	6.23E-08	1YrCancerD	6.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	636646.2	4270272	1.68E-07	1YrCancerD	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	636686.2	4270272	2.99E-07	1YrCancerD	2.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	636766.2	4270272	8.50E-08	1YrCancerD	8.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	636806.2	4270272	5.97E-08	1YrCancerD	5.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	636846.2	4270272	4.65E-08	1YrCancerD	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	636886.2	4270272	3.88E-08	1YrCancerD	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	636926.2	4270272	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	636966.2	4270272	3.09E-08	1YrCancerD	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	637046.2	4270272	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	637166.2	4270272	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	637206.2	4270272	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	637246.2	4270272	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	637566.2	4270272	4.56E-08	1YrCancerD	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	637606.2	4270272	5.83E-08	1YrCancerD	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	637646.2	4270272	9.91E-08	1YrCancerD	9.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	637726.2	4270272	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	637766.2	4270272	5.25E-08	1YrCancerD	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	637806.2	4270272	3.66E-08	1YrCancerD	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	637846.2	4270272	2.88E-08	1YrCancerD	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	637926.2	4270272	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	637966.2	4270272	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	638006.2	4270272	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	638046.2	4270272	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	638086.2	4270272	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	638126.2	4270272	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	633086.2	4270312	9.33E-09	1YrCancerD	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	633126.2	4270312	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	633166.2	4270312	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	633206.2	4270312	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	633246.2	4270312	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	636286.2	4270312	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	636366.2	4270312	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	636446.2	4270312	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+

428	ALL	636566.2	4270312	5.03E-08	1YrCancerD	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	636606.2	4270312	1.76E-07	1YrCancerD	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	636646.2	4270312	2.31E-07	1YrCancerD	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	636686.2	4270312	1.09E-07	1YrCancerD	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	636766.2	4270312	5.85E-08	1YrCancerD	5.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	636806.2	4270312	4.74E-08	1YrCancerD	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	636846.2	4270312	4.02E-08	1YrCancerD	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	636886.2	4270312	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	636926.2	4270312	3.18E-08	1YrCancerD	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	637006.2	4270312	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	637046.2	4270312	2.68E-08	1YrCancerD	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	637086.2	4270312	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	637126.2	4270312	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	637166.2	4270312	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	637566.2	4270312	3.68E-08	1YrCancerD	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	637606.2	4270312	4.39E-08	1YrCancerD	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	637646.2	4270312	6.06E-08	1YrCancerD	6.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	637686.2	4270312	1.21E-07	1YrCancerD	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	637766.2	4270312	7.95E-08	1YrCancerD	7.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	637806.2	4270312	4.63E-08	1YrCancerD	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	637846.2	4270312	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	637886.2	4270312	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	637966.2	4270312	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	638006.2	4270312	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	638046.2	4270312	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	638086.2	4270312	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	638126.2	4270312	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	638166.2	4270312	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	638206.2	4270312	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	638246.2	4270312	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	633086.2	4270352	9.65E-09	1YrCancerD	9.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	633126.2	4270352	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	633166.2	4270352	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	633206.2	4270352	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	633246.2	4270352	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	636286.2	4270352	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	636366.2	4270352	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	636446.2	4270352	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	636566.2	4270352	8.20E-08	1YrCancerD	8.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	636606.2	4270352	3.35E-07	1YrCancerD	3.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	636646.2	4270352	1.09E-07	1YrCancerD	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	636686.2	4270352	7.37E-08	1YrCancerD	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	636726.2	4270352	5.74E-08	1YrCancerD	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	636766.2	4270352	4.72E-08	1YrCancerD	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	636846.2	4270352	3.61E-08	1YrCancerD	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	636886.2	4270352	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	636926.2	4270352	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	637006.2	4270352	2.66E-08	1YrCancerD	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	637046.2	4270352	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	637086.2	4270352	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	637126.2	4270352	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	637166.2	4270352	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	637606.2	4270352	3.62E-08	1YrCancerD	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	637646.2	4270352	4.54E-08	1YrCancerD	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	637686.2	4270352	6.96E-08	1YrCancerD	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	637886.2	4270352	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	637926.2	4270352	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	638046.2	4270352	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	638086.2	4270352	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	638126.2	4270352	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	638166.2	4270352	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	638206.2	4270352	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	638246.2	4270352	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	633086.2	4270392	9.96E-09	1YrCancerD	9.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	636286.2	4270392	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	636366.2	4270392	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	636406.2	4270392	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	636446.2	4270392	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	636526.2	4270392	4.62E-08	1YrCancerD	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	636646.2	4270392	8.17E-08	1YrCancerD	8.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	636686.2	4270392	5.95E-08	1YrCancerD	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	636726.2	4270392	4.83E-08	1YrCancerD	4.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	636766.2	4270392	4.13E-08	1YrCancerD	4.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	636846.2	4270392	3.34E-08	1YrCancerD	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	636886.2	4270392	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	636966.2	4270392	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	637006.2	4270392	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	637046.2	4270392	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	637086.2	4270392	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	637166.2	4270392	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	637206.2	4270392	2.35E-08	1YrCancerD	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	637606.2	4270392	3.14E-08	1YrCancerD	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	637646.2	4270392	3.73E-08	1YrCancerD	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	637686.2	4270392	5.00E-08	1YrCancerD	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	637726.2	4270392	8.76E-08	1YrCancerD	8.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	637926.2	4270392	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	637966.2	4270392	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	638006.2	4270392	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	638086.2	4270392	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	638126.2	4270392	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	638166.2	4270392	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	638206.2	4270392	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	638246.2	4270392	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	633886.2	4270432	3.69E-08	1YrCancerD	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	633926.2	4270432	3.35E-08	1YrCancerD	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	636286.2	4270432	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	636326.2	4270432	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	636366.2	4270432	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	636406.2	4270432	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	636446.2	4270432	2.54E-08	1YrCancerD	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	636526.2	4270432	5.57E-08	1YrCancerD	5.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+

535	ALL	636966.2	4270432	2.62E-08	1YrCancerD	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	637006.2	4270432	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	637046.2	4270432	2.41E-08	1YrCancerD	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	637126.2	4270432	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	637166.2	4270432	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	637206.2	4270432	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	637606.2	4270432	2.82E-08	1YrCancerD	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	637646.2	4270432	3.22E-08	1YrCancerD	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	637686.2	4270432	4.00E-08	1YrCancerD	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	637726.2	4270432	5.82E-08	1YrCancerD	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	637766.2	4270432	1.28E-07	1YrCancerD	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	637966.2	4270432	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	638006.2	4270432	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	638046.2	4270432	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	638086.2	4270432	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	638166.2	4270432	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	638206.2	4270432	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	638246.2	4270432	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	638286.2	4270432	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	633766.2	4270472	5.64E-08	1YrCancerD	5.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	633806.2	4270472	4.95E-08	1YrCancerD	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	633846.2	4270472	4.39E-08	1YrCancerD	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	633886.2	4270472	3.93E-08	1YrCancerD	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	633926.2	4270472	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	636206.2	4270472	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	636526.2	4270472	6.55E-08	1YrCancerD	6.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	636606.2	4270472	1.10E-07	1YrCancerD	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	636646.2	4270472	6.45E-08	1YrCancerD	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	636686.2	4270472	4.90E-08	1YrCancerD	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	636726.2	4270472	4.10E-08	1YrCancerD	4.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	636766.2	4270472	3.62E-08	1YrCancerD	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	636926.2	4270472	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	636966.2	4270472	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	637006.2	4270472	2.46E-08	1YrCancerD	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	637046.2	4270472	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	637126.2	4270472	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	637166.2	4270472	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	637206.2	4270472	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	637606.2	4270472	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	637646.2	4270472	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	637686.2	4270472	3.40E-08	1YrCancerD	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	637726.2	4270472	4.47E-08	1YrCancerD	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	637766.2	4270472	7.32E-08	1YrCancerD	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	637886.2	4270472	5.95E-08	1YrCancerD	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	637926.2	4270472	3.93E-08	1YrCancerD	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	637966.2	4270472	3.01E-08	1YrCancerD	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	638046.2	4270472	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	638086.2	4270472	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	638126.2	4270472	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	638166.2	4270472	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	633686.2	4270512	9.00E-08	1YrCancerD	9.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	633726.2	4270512	7.38E-08	1YrCancerD	7.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	633766.2	4270512	6.24E-08	1YrCancerD	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	633806.2	4270512	5.39E-08	1YrCancerD	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	633846.2	4270512	4.72E-08	1YrCancerD	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	633886.2	4270512	4.17E-08	1YrCancerD	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	633926.2	4270512	3.71E-08	1YrCancerD	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	636206.2	4270512	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	636286.2	4270512	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	636326.2	4270512	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	636366.2	4270512	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	636406.2	4270512	2.35E-08	1YrCancerD	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	636526.2	4270512	7.26E-08	1YrCancerD	7.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	636566.2	4270512	2.56E-07	1YrCancerD	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	636606.2	4270512	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	636646.2	4270512	6.26E-08	1YrCancerD	6.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	636686.2	4270512	4.77E-08	1YrCancerD	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	636726.2	4270512	4.00E-08	1YrCancerD	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	636766.2	4270512	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	636806.2	4270512	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	636846.2	4270512	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	637006.2	4270512	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	637046.2	4270512	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	637086.2	4270512	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	637126.2	4270512	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	637166.2	4270512	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	637206.2	4270512	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	637646.2	4270512	2.62E-08	1YrCancerD	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	637686.2	4270512	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	637726.2	4270512	3.69E-08	1YrCancerD	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	637766.2	4270512	5.21E-08	1YrCancerD	5.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	637806.2	4270512	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	637966.2	4270512	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	638006.2	4270512	2.82E-08	1YrCancerD	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	638046.2	4270512	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	638126.2	4270512	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	633646.2	4270552	1.41E-07	1YrCancerD	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	633686.2	4270552	1.05E-07	1YrCancerD	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	633726.2	4270552	8.31E-08	1YrCancerD	8.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	633766.2	4270552	6.87E-08	1YrCancerD	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	633806.2	4270552	5.84E-08	1YrCancerD	5.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	633846.2	4270552	5.05E-08	1YrCancerD	5.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	633886.2	4270552	4.41E-08	1YrCancerD	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	633926.2	4270552	3.88E-08	1YrCancerD	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	636206.2	4270552	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	636286.2	4270552	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	636326.2	4270552	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	636366.2	4270552	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	636406.2	4270552	2.41E-08	1YrCancerD	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	636526.2	4270552	7.18E-08	1YrCancerD	7.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	636606.2	4270552	1.07E-07	1YrCancerD	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	636646.2	4270552	6.37E-08	1YrCancerD	6.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	636686.2	4270552	4.83E-08	1YrCancerD	4.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	636726.2	4270552	4.04E-08	1YrCancerD	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	636806.2	4270552	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	636846.2	4270552	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	636886.2	4270552	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+

642	ALL	636926.2	4270552	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	637086.2	4270552	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	637126.2	4270552	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	637166.2	4270552	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	637206.2	4270552	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	637646.2	4270552	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	637686.2	4270552	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	637726.2	4270552	3.18E-08	1YrCancerD	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	637766.2	4270552	4.11E-08	1YrCancerD	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	637806.2	4270552	6.38E-08	1YrCancerD	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	637846.2	4270552	1.69E-07	1YrCancerD	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	638006.2	4270552	3.33E-08	1YrCancerD	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	638046.2	4270552	2.67E-08	1YrCancerD	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	638086.2	4270552	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	633406.2	4270592	5.60E-08	1YrCancerD	5.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	633446.2	4270592	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	633646.2	4270592	1.73E-07	1YrCancerD	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	633686.2	4270592	1.21E-07	1YrCancerD	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	633726.2	4270592	9.34E-08	1YrCancerD	9.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	633766.2	4270592	7.56E-08	1YrCancerD	7.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	633806.2	4270592	6.33E-08	1YrCancerD	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	633846.2	4270592	5.40E-08	1YrCancerD	5.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	633886.2	4270592	4.66E-08	1YrCancerD	4.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	633926.2	4270592	4.05E-08	1YrCancerD	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	636206.2	4270592	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	636286.2	4270592	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	636326.2	4270592	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	636366.2	4270592	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	636406.2	4270592	2.46E-08	1YrCancerD	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	636486.2	4270592	3.86E-08	1YrCancerD	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	636526.2	4270592	6.42E-08	1YrCancerD	6.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	636606.2	4270592	1.30E-07	1YrCancerD	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	636646.2	4270592	6.94E-08	1YrCancerD	6.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	636686.2	4270592	5.11E-08	1YrCancerD	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	636766.2	4270592	3.66E-08	1YrCancerD	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	636806.2	4270592	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	636886.2	4270592	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	636966.2	4270592	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	637006.2	4270592	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	637086.2	4270592	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	637166.2	4270592	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	637206.2	4270592	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	637646.2	4270592	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	637686.2	4270592	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	637726.2	4270592	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	637766.2	4270592	3.44E-08	1YrCancerD	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	637806.2	4270592	4.70E-08	1YrCancerD	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	637846.2	4270592	8.26E-08	1YrCancerD	8.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	633366.2	4270632	4.11E-08	1YrCancerD	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	633406.2	4270632	6.14E-08	1YrCancerD	6.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	633446.2	4270632	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	633646.2	4270632	2.15E-07	1YrCancerD	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	633686.2	4270632	1.42E-07	1YrCancerD	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	633726.2	4270632	1.05E-07	1YrCancerD	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	633766.2	4270632	8.32E-08	1YrCancerD	8.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	633806.2	4270632	6.85E-08	1YrCancerD	6.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	633846.2	4270632	5.76E-08	1YrCancerD	5.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	633886.2	4270632	4.91E-08	1YrCancerD	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	633926.2	4270632	4.22E-08	1YrCancerD	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	636206.2	4270632	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	636486.2	4270632	3.73E-08	1YrCancerD	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	636526.2	4270632	5.48E-08	1YrCancerD	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	636566.2	4270632	1.33E-07	1YrCancerD	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	636606.2	4270632	2.05E-07	1YrCancerD	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	636646.2	4270632	8.41E-08	1YrCancerD	8.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	636726.2	4270632	4.55E-08	1YrCancerD	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	636766.2	4270632	3.87E-08	1YrCancerD	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	636846.2	4270632	3.12E-08	1YrCancerD	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	636886.2	4270632	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	636966.2	4270632	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	637046.2	4270632	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	637086.2	4270632	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	637126.2	4270632	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	637166.2	4270632	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	637646.2	4270632	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	637686.2	4270632	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	637726.2	4270632	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	637766.2	4270632	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	637806.2	4270632	3.78E-08	1YrCancerD	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	637846.2	4270632	5.43E-08	1YrCancerD	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	637886.2	4270632	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	633406.2	4270672	6.48E-08	1YrCancerD	6.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	633446.2	4270672	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	633646.2	4270672	2.70E-07	1YrCancerD	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	633686.2	4270672	1.67E-07	1YrCancerD	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	633726.2	4270672	1.19E-07	1YrCancerD	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	633766.2	4270672	9.18E-08	1YrCancerD	9.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	633806.2	4270672	7.41E-08	1YrCancerD	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	633846.2	4270672	6.13E-08	1YrCancerD	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	633886.2	4270672	5.15E-08	1YrCancerD	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	633926.2	4270672	4.38E-08	1YrCancerD	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	636206.2	4270672	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	636486.2	4270672	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	636526.2	4270672	4.71E-08	1YrCancerD	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	636566.2	4270672	8.22E-08	1YrCancerD	8.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	636686.2	4270672	7.10E-08	1YrCancerD	7.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	636726.2	4270672	5.18E-08	1YrCancerD	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	636806.2	4270672	3.65E-08	1YrCancerD	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	636846.2	4270672	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	636926.2	4270672	2.78E-08	1YrCancerD	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	636966.2	4270672	2.62E-08	1YrCancerD	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	637046.2	4270672	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	637086.2	4270672	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	637126.2	4270672	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	637166.2	4270672	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	637206.2	4270672	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	637246.2	4270672	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+

749	ALL	637686.2	4270672	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	637726.2	4270672	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	637766.2	4270672	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	637806.2	4270672	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	637846.2	4270672	4.11E-08	1YrCancerD	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	637886.2	4270672	6.04E-08	1YrCancerD	6.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	637926.2	4270672	1.20E-07	1YrCancerD	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	633446.2	4270712	1.08E-07	1YrCancerD	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	633486.2	4270712	1.97E-07	1YrCancerD	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	633686.2	4270712	1.98E-07	1YrCancerD	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	633726.2	4270712	1.35E-07	1YrCancerD	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	633766.2	4270712	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	633806.2	4270712	8.03E-08	1YrCancerD	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	636206.2	4270712	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	636486.2	4270712	3.34E-08	1YrCancerD	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	636526.2	4270712	4.11E-08	1YrCancerD	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	636566.2	4270712	5.82E-08	1YrCancerD	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	636606.2	4270712	1.16E-07	1YrCancerD	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	636686.2	4270712	1.07E-07	1YrCancerD	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	636766.2	4270712	4.82E-08	1YrCancerD	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	636806.2	4270712	4.00E-08	1YrCancerD	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	636886.2	4270712	3.14E-08	1YrCancerD	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	636926.2	4270712	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	637006.2	4270712	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	637046.2	4270712	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	637086.2	4270712	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	637126.2	4270712	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	637206.2	4270712	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	637246.2	4270712	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	637686.2	4270712	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	637726.2	4270712	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	637766.2	4270712	2.46E-08	1YrCancerD	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	637806.2	4270712	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	637846.2	4270712	3.37E-08	1YrCancerD	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	633326.2	4270752	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	633366.2	4270752	4.67E-08	1YrCancerD	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	633406.2	4270752	6.70E-08	1YrCancerD	6.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	633446.2	4270752	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	633486.2	4270752	1.71E-07	1YrCancerD	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	633686.2	4270752	2.35E-07	1YrCancerD	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	633726.2	4270752	1.55E-07	1YrCancerD	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	633766.2	4270752	1.13E-07	1YrCancerD	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	636206.2	4270752	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	636486.2	4270752	3.15E-08	1YrCancerD	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	636526.2	4270752	3.67E-08	1YrCancerD	3.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	636566.2	4270752	4.62E-08	1YrCancerD	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	636606.2	4270752	6.86E-08	1YrCancerD	6.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	636646.2	4270752	1.44E-07	1YrCancerD	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	636686.2	4270752	1.69E-07	1YrCancerD	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	636726.2	4270752	9.31E-08	1YrCancerD	9.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	636766.2	4270752	5.91E-08	1YrCancerD	5.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	636846.2	4270752	3.82E-08	1YrCancerD	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	636886.2	4270752	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	636966.2	4270752	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	637006.2	4270752	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	637046.2	4270752	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	637086.2	4270752	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	637126.2	4270752	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	637166.2	4270752	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	637246.2	4270752	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	637686.2	4270752	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	637726.2	4270752	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	637766.2	4270752	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	633326.2	4270792	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	633366.2	4270792	4.74E-08	1YrCancerD	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	633406.2	4270792	6.61E-08	1YrCancerD	6.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	633446.2	4270792	9.63E-08	1YrCancerD	9.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	633486.2	4270792	1.50E-07	1YrCancerD	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	633526.2	4270792	2.79E-07	1YrCancerD	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	633686.2	4270792	2.83E-07	1YrCancerD	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	633726.2	4270792	1.78E-07	1YrCancerD	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	633766.2	4270792	1.26E-07	1YrCancerD	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	636206.2	4270792	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	636446.2	4270792	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	636486.2	4270792	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	636526.2	4270792	3.35E-08	1YrCancerD	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	636566.2	4270792	3.94E-08	1YrCancerD	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	636606.2	4270792	5.09E-08	1YrCancerD	5.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	636646.2	4270792	7.76E-08	1YrCancerD	7.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	636686.2	4270792	1.79E-07	1YrCancerD	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	636726.2	4270792	2.14E-07	1YrCancerD	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	636806.2	4270792	5.52E-08	1YrCancerD	5.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	636846.2	4270792	4.34E-08	1YrCancerD	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	636926.2	4270792	3.26E-08	1YrCancerD	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	636966.2	4270792	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	637006.2	4270792	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	637046.2	4270792	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	637086.2	4270792	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	637166.2	4270792	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	637246.2	4270792	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	637286.2	4270792	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	637726.2	4270792	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	637766.2	4270792	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	638086.2	4270792	7.00E-08	1YrCancerD	7.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	638126.2	4270792	3.91E-08	1YrCancerD	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	638206.2	4270792	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	638246.2	4270792	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	638286.2	4270792	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	638326.2	4270792	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	638366.2	4270792	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	633326.2	4270832	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	633366.2	4270832	4.76E-08	1YrCancerD	4.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	633406.2	4270832	6.45E-08	1YrCancerD	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	633446.2	4270832	9.04E-08	1YrCancerD	9.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	633486.2	4270832	1.34E-07	1YrCancerD	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	633526.2	4270832	2.27E-07	1YrCancerD	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	633726.2	4270832	2.05E-07	1YrCancerD	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+

856	ALL	633766.2	4270832	1.40E-07	1YrCancerD	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	636206.2	4270832	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	636446.2	4270832	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	636486.2	4270832	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	636526.2	4270832	3.12E-08	1YrCancerD	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	636566.2	4270832	3.51E-08	1YrCancerD	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	636606.2	4270832	4.21E-08	1YrCancerD	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	636646.2	4270832	5.54E-08	1YrCancerD	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	636686.2	4270832	8.66E-08	1YrCancerD	8.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	636766.2	4270832	1.64E-07	1YrCancerD	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	636806.2	4270832	7.51E-08	1YrCancerD	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	636886.2	4270832	4.16E-08	1YrCancerD	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	636926.2	4270832	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	636966.2	4270832	3.18E-08	1YrCancerD	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	637006.2	4270832	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	637046.2	4270832	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	637086.2	4270832	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	637126.2	4270832	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	637166.2	4270832	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	637246.2	4270832	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	637286.2	4270832	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	637726.2	4270832	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	637766.2	4270832	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	637806.2	4270832	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	638086.2	4270832	7.93E-08	1YrCancerD	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	638126.2	4270832	4.27E-08	1YrCancerD	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	638206.2	4270832	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	638246.2	4270832	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	638286.2	4270832	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	638326.2	4270832	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	638366.2	4270832	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	633326.2	4270872	3.66E-08	1YrCancerD	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	633366.2	4270872	4.72E-08	1YrCancerD	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	633406.2	4270872	6.24E-08	1YrCancerD	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	633446.2	4270872	8.48E-08	1YrCancerD	8.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	633486.2	4270872	1.21E-07	1YrCancerD	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	633526.2	4270872	1.92E-07	1YrCancerD	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	633726.2	4270872	2.38E-07	1YrCancerD	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	633766.2	4270872	1.57E-07	1YrCancerD	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	633806.2	4270872	1.11E-07	1YrCancerD	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	636406.2	4270872	2.54E-08	1YrCancerD	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	636446.2	4270872	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	636486.2	4270872	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	636526.2	4270872	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	636566.2	4270872	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	636606.2	4270872	3.69E-08	1YrCancerD	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	636646.2	4270872	4.48E-08	1YrCancerD	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	636686.2	4270872	5.97E-08	1YrCancerD	5.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	636726.2	4270872	9.75E-08	1YrCancerD	9.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	636846.2	4270872	6.88E-08	1YrCancerD	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	636886.2	4270872	4.94E-08	1YrCancerD	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	636926.2	4270872	4.01E-08	1YrCancerD	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	636966.2	4270872	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	637006.2	4270872	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	637046.2	4270872	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	637086.2	4270872	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	637126.2	4270872	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	637166.2	4270872	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	637246.2	4270872	2.15E-08	1YrCancerD	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	637286.2	4270872	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	637726.2	4270872	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	637766.2	4270872	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	637806.2	4270872	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	637966.2	4270872	4.15E-08	1YrCancerD	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	638006.2	4270872	8.69E-08	1YrCancerD	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	638086.2	4270872	8.35E-08	1YrCancerD	8.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	638126.2	4270872	4.57E-08	1YrCancerD	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	638206.2	4270872	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	638246.2	4270872	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	638286.2	4270872	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	638326.2	4270872	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	638366.2	4270872	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	633366.2	4270912	4.65E-08	1YrCancerD	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	633406.2	4270912	6.01E-08	1YrCancerD	6.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	633446.2	4270912	7.96E-08	1YrCancerD	7.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	633486.2	4270912	1.10E-07	1YrCancerD	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	633526.2	4270912	1.65E-07	1YrCancerD	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	633566.2	4270912	2.98E-07	1YrCancerD	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	633726.2	4270912	2.79E-07	1YrCancerD	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	633766.2	4270912	1.75E-07	1YrCancerD	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	633806.2	4270912	1.20E-07	1YrCancerD	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	636206.2	4270912	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	636446.2	4270912	2.61E-08	1YrCancerD	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	636486.2	4270912	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	636526.2	4270912	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	636566.2	4270912	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	636606.2	4270912	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	636646.2	4270912	3.88E-08	1YrCancerD	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	636686.2	4270912	4.74E-08	1YrCancerD	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	636726.2	4270912	6.43E-08	1YrCancerD	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	636766.2	4270912	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	636846.2	4270912	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	636886.2	4270912	6.37E-08	1YrCancerD	6.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	636926.2	4270912	4.72E-08	1YrCancerD	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	636966.2	4270912	3.88E-08	1YrCancerD	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	637006.2	4270912	3.38E-08	1YrCancerD	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	637046.2	4270912	3.03E-08	1YrCancerD	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	637086.2	4270912	2.78E-08	1YrCancerD	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	637126.2	4270912	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	637206.2	4270912	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	637246.2	4270912	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	637286.2	4270912	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	637726.2	4270912	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	637766.2	4270912	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	637806.2	4270912	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	637846.2	4270912	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	637966.2	4270912	4.18E-08	1YrCancerD	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+

963	ALL	638006.2	4270912	8.92E-08	1YrCancerD	8.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	638086.2	4270912	8.46E-08	1YrCancerD	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	638126.2	4270912	4.77E-08	1YrCancerD	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	638206.2	4270912	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	638246.2	4270912	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	638286.2	4270912	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	638326.2	4270912	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	638366.2	4270912	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	633366.2	4270952	4.55E-08	1YrCancerD	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	633406.2	4270952	5.77E-08	1YrCancerD	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	633446.2	4270952	7.47E-08	1YrCancerD	7.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	633486.2	4270952	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	633526.2	4270952	1.45E-07	1YrCancerD	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	633566.2	4270952	2.41E-07	1YrCancerD	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	633766.2	4270952	1.95E-07	1YrCancerD	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	633806.2	4270952	1.28E-07	1YrCancerD	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	636206.2	4270952	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	636406.2	4270952	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	636446.2	4270952	2.59E-08	1YrCancerD	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	636486.2	4270952	2.66E-08	1YrCancerD	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	636526.2	4270952	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	636566.2	4270952	2.92E-08	1YrCancerD	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	636606.2	4270952	3.15E-08	1YrCancerD	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	636646.2	4270952	3.50E-08	1YrCancerD	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	636686.2	4270952	4.06E-08	1YrCancerD	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	636726.2	4270952	5.01E-08	1YrCancerD	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	636766.2	4270952	6.97E-08	1YrCancerD	6.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	636806.2	4270952	1.32E-07	1YrCancerD	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	636886.2	4270952	9.75E-08	1YrCancerD	9.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	636926.2	4270952	5.96E-08	1YrCancerD	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	636966.2	4270952	4.53E-08	1YrCancerD	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	637006.2	4270952	3.77E-08	1YrCancerD	3.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	637046.2	4270952	3.29E-08	1YrCancerD	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	637086.2	4270952	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	637126.2	4270952	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	637166.2	4270952	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	637206.2	4270952	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	637246.2	4270952	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	637286.2	4270952	2.15E-08	1YrCancerD	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	637726.2	4270952	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	637766.2	4270952	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	637806.2	4270952	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	637846.2	4270952	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	637966.2	4270952	4.22E-08	1YrCancerD	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	638006.2	4270952	9.12E-08	1YrCancerD	9.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	638086.2	4270952	8.46E-08	1YrCancerD	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	638126.2	4270952	4.87E-08	1YrCancerD	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	638166.2	4270952	3.41E-08	1YrCancerD	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	638206.2	4270952	2.62E-08	1YrCancerD	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	638246.2	4270952	2.15E-08	1YrCancerD	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	638326.2	4270952	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	638366.2	4270952	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	633366.2	4270992	4.44E-08	1YrCancerD	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	633406.2	4270992	5.53E-08	1YrCancerD	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	633446.2	4270992	7.03E-08	1YrCancerD	7.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	633486.2	4270992	9.25E-08	1YrCancerD	9.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	633526.2	4270992	1.29E-07	1YrCancerD	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	633566.2	4270992	2.01E-07	1YrCancerD	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	633766.2	4270992	2.17E-07	1YrCancerD	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	633806.2	4270992	1.35E-07	1YrCancerD	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	633846.2	4270992	9.20E-08	1YrCancerD	9.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	634246.2	4270992	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	634286.2	4270992	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	634326.2	4270992	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	634366.2	4270992	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	634446.2	4270992	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	634486.2	4270992	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	634526.2	4270992	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	634566.2	4270992	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	634606.2	4270992	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	634646.2	4270992	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	634686.2	4270992	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	634726.2	4270992	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	634806.2	4270992	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	634846.2	4270992	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	634886.2	4270992	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	634926.2	4270992	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	634966.2	4270992	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	636206.2	4270992	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	636246.2	4270992	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	636366.2	4270992	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	636406.2	4270992	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	636446.2	4270992	2.59E-08	1YrCancerD	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	636486.2	4270992	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	636526.2	4270992	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	636566.2	4270992	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	636606.2	4270992	3.01E-08	1YrCancerD	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	636646.2	4270992	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	636686.2	4270992	3.65E-08	1YrCancerD	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	636726.2	4270992	4.25E-08	1YrCancerD	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	636766.2	4270992	5.30E-08	1YrCancerD	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	636806.2	4270992	7.61E-08	1YrCancerD	7.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	636846.2	4270992	1.60E-07	1YrCancerD	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	636886.2	4270992	2.54E-07	1YrCancerD	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	636926.2	4270992	8.69E-08	1YrCancerD	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	636966.2	4270992	5.62E-08	1YrCancerD	5.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	637006.2	4270992	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	637046.2	4270992	3.66E-08	1YrCancerD	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	637086.2	4270992	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	637126.2	4270992	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	637166.2	4270992	2.67E-08	1YrCancerD	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	637206.2	4270992	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	637246.2	4270992	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	637286.2	4270992	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	637726.2	4270992	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	637766.2	4270992	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	637806.2	4270992	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00

1070	ALL	637846.2	4270992	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	637886.2	4270992	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	637966.2	4270992	4.27E-08	1YrCancerD	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	638086.2	4270992	8.40E-08	1YrCancerD	8.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	638126.2	4270992	4.92E-08	1YrCancerD	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	638166.2	4270992	3.48E-08	1YrCancerD	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	638206.2	4270992	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	638246.2	4270992	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	638326.2	4270992	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	638366.2	4270992	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	633406.2	4271032	5.30E-08	1YrCancerD	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	633446.2	4271032	6.63E-08	1YrCancerD	6.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	633486.2	4271032	8.55E-08	1YrCancerD	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	633526.2	4271032	1.16E-07	1YrCancerD	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	633566.2	4271032	1.72E-07	1YrCancerD	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	633606.2	4271032	3.08E-07	1YrCancerD	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	633766.2	4271032	2.39E-07	1YrCancerD	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	633806.2	4271032	1.40E-07	1YrCancerD	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	633846.2	4271032	9.37E-08	1YrCancerD	9.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	634126.2	4271032	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	634166.2	4271032	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	634206.2	4271032	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	634246.2	4271032	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	634286.2	4271032	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	634366.2	4271032	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	634406.2	4271032	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	634446.2	4271032	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	634486.2	4271032	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	634566.2	4271032	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	634606.2	4271032	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	634646.2	4271032	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	634726.2	4271032	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	634766.2	4271032	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	634806.2	4271032	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	634846.2	4271032	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	634886.2	4271032	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	634926.2	4271032	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	634966.2	4271032	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	635046.2	4271032	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	635086.2	4271032	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	635686.2	4271032	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	635726.2	4271032	3.06E-08	1YrCancerD	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	635766.2	4271032	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	635806.2	4271032	3.12E-08	1YrCancerD	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	635846.2	4271032	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	635886.2	4271032	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	635926.2	4271032	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	635966.2	4271032	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	636006.2	4271032	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	636046.2	4271032	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	636086.2	4271032	2.67E-08	1YrCancerD	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	636126.2	4271032	2.61E-08	1YrCancerD	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	636166.2	4271032	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	636206.2	4271032	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	636366.2	4271032	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	636406.2	4271032	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	636446.2	4271032	2.60E-08	1YrCancerD	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	636486.2	4271032	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	636526.2	4271032	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	636566.2	4271032	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	636606.2	4271032	2.93E-08	1YrCancerD	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	636646.2	4271032	3.12E-08	1YrCancerD	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	636686.2	4271032	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	636726.2	4271032	3.80E-08	1YrCancerD	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	636766.2	4271032	4.45E-08	1YrCancerD	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	636806.2	4271032	5.63E-08	1YrCancerD	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	636846.2	4271032	8.38E-08	1YrCancerD	8.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	636886.2	4271032	2.04E-07	1YrCancerD	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	636926.2	4271032	1.87E-07	1YrCancerD	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	636966.2	4271032	7.87E-08	1YrCancerD	7.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	637046.2	4271032	4.20E-08	1YrCancerD	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	637086.2	4271032	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	637126.2	4271032	3.14E-08	1YrCancerD	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	637166.2	4271032	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	637206.2	4271032	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	637246.2	4271032	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	637766.2	4271032	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	637806.2	4271032	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	637846.2	4271032	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	637886.2	4271032	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	637926.2	4271032	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	637966.2	4271032	4.31E-08	1YrCancerD	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	638086.2	4271032	8.33E-08	1YrCancerD	8.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	638126.2	4271032	4.93E-08	1YrCancerD	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	638166.2	4271032	3.52E-08	1YrCancerD	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	638206.2	4271032	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	638246.2	4271032	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	638326.2	4271032	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	638366.2	4271032	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	633406.2	4271072	5.08E-08	1YrCancerD	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	633446.2	4271072	6.27E-08	1YrCancerD	6.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	633486.2	4271072	7.96E-08	1YrCancerD	7.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	633526.2	4271072	1.06E-07	1YrCancerD	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	633566.2	4271072	1.50E-07	1YrCancerD	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	633606.2	4271072	2.47E-07	1YrCancerD	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	633806.2	4271072	1.42E-07	1YrCancerD	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	633846.2	4271072	9.46E-08	1YrCancerD	9.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	634006.2	4271072	3.75E-08	1YrCancerD	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	634046.2	4271072	3.25E-08	1YrCancerD	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	634086.2	4271072	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	634126.2	4271072	2.61E-08	1YrCancerD	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	634166.2	4271072	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	634206.2	4271072	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	634246.2	4271072	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	634286.2	4271072	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	634326.2	4271072	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	634366.2	4271072	1.85E-08

1177	ALL	634406.2	4271072	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	634446.2	4271072	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	634486.2	4271072	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	634526.2	4271072	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	634566.2	4271072	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	634606.2	4271072	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	634646.2	4271072	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	634686.2	4271072	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	634726.2	4271072	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	634766.2	4271072	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	634806.2	4271072	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	634846.2	4271072	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	634886.2	4271072	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	634926.2	4271072	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	634966.2	4271072	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	635006.2	4271072	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	635046.2	4271072	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	635086.2	4271072	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	635126.2	4271072	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	635686.2	4271072	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	635726.2	4271072	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	635766.2	4271072	3.31E-08	1YrCancerD	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	635806.2	4271072	3.31E-08	1YrCancerD	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	635846.2	4271072	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	635886.2	4271072	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	635926.2	4271072	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	635966.2	4271072	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	636006.2	4271072	2.92E-08	1YrCancerD	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	636046.2	4271072	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	636086.2	4271072	2.76E-08	1YrCancerD	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	636126.2	4271072	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	636166.2	4271072	2.66E-08	1YrCancerD	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	636326.2	4271072	2.61E-08	1YrCancerD	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	636366.2	4271072	2.62E-08	1YrCancerD	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	636406.2	4271072	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	636446.2	4271072	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	636486.2	4271072	2.68E-08	1YrCancerD	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	636526.2	4271072	2.73E-08	1YrCancerD	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	636566.2	4271072	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	636606.2	4271072	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	636646.2	4271072	3.03E-08	1YrCancerD	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	636726.2	4271072	3.52E-08	1YrCancerD	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	636766.2	4271072	3.95E-08	1YrCancerD	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	636806.2	4271072	4.66E-08	1YrCancerD	4.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	636846.2	4271072	5.99E-08	1YrCancerD	5.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	636886.2	4271072	9.32E-08	1YrCancerD	9.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	637006.2	4271072	7.22E-08	1YrCancerD	7.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	637046.2	4271072	5.08E-08	1YrCancerD	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	637086.2	4271072	4.07E-08	1YrCancerD	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	637126.2	4271072	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	637166.2	4271072	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	637206.2	4271072	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	637766.2	4271072	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	637806.2	4271072	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	637846.2	4271072	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	637886.2	4271072	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	637926.2	4271072	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	637966.2	4271072	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	638086.2	4271072	8.25E-08	1YrCancerD	8.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	638126.2	4271072	4.93E-08	1YrCancerD	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	638166.2	4271072	3.55E-08	1YrCancerD	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	638206.2	4271072	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	638246.2	4271072	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	638326.2	4271072	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	638366.2	4271072	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	633406.2	4271112	4.87E-08	1YrCancerD	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	633446.2	4271112	5.95E-08	1YrCancerD	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	633486.2	4271112	7.48E-08	1YrCancerD	7.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	633526.2	4271112	9.79E-08	1YrCancerD	9.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	633566.2	4271112	1.36E-07	1YrCancerD	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	633606.2	4271112	2.10E-07	1YrCancerD	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	633806.2	4271112	1.42E-07	1YrCancerD	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	633886.2	4271112	7.03E-08	1YrCancerD	7.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	633926.2	4271112	5.52E-08	1YrCancerD	5.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	633966.2	4271112	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	634006.2	4271112	3.81E-08	1YrCancerD	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	634046.2	4271112	3.31E-08	1YrCancerD	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	634126.2	4271112	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	634166.2	4271112	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	634206.2	4271112	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	634286.2	4271112	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	634326.2	4271112	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	634366.2	4271112	1.88E-08	1YrCancerD	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	634406.2	4271112	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	634486.2	4271112	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	634566.2	4271112	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	634606.2	4271112	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	634646.2	4271112	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	634686.2	4271112	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	634726.2	4271112	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	634766.2	4271112	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	634846.2	4271112	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	634886.2	4271112	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	634926.2	4271112	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	634966.2	4271112	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	635006.2	4271112	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	635046.2	4271112	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	635086.2	4271112	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	635126.2	4271112	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	635166.2	4271112	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	635686.2	4271112	3.44E-08	1YrCancerD	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	635726.2	4271112	3.51E-08	1YrCancerD	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	635766.2	4271112	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	635806.2	4271112	3.52E-08	1YrCancerD	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	635846.2	4271112	3.46E-08	1YrCancerD	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	635886.2	4271112	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	635926.2	4271112	3.26E-08

1284	ALL	635966.2	4271112	3.15E-08	1YrCancerD	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	636006.2	4271112	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	636046.2	4271112	2.95E-08	1YrCancerD	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	636086.2	4271112	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	636126.2	4271112	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	636286.2	4271112	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	636326.2	4271112	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	636366.2	4271112	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	636406.2	4271112	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	636446.2	4271112	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	636486.2	4271112	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	636526.2	4271112	2.78E-08	1YrCancerD	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	636566.2	4271112	2.82E-08	1YrCancerD	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	636646.2	4271112	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	636686.2	4271112	3.15E-08	1YrCancerD	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	636726.2	4271112	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	636766.2	4271112	3.65E-08	1YrCancerD	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	636806.2	4271112	4.11E-08	1YrCancerD	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	636846.2	4271112	4.89E-08	1YrCancerD	4.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	636886.2	4271112	6.41E-08	1YrCancerD	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	636926.2	4271112	1.05E-07	1YrCancerD	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	637006.2	4271112	1.24E-07	1YrCancerD	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	637046.2	4271112	6.70E-08	1YrCancerD	6.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	637086.2	4271112	4.86E-08	1YrCancerD	4.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	637126.2	4271112	3.95E-08	1YrCancerD	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	637166.2	4271112	3.40E-08	1YrCancerD	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	637766.2	4271112	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	637806.2	4271112	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	637846.2	4271112	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	637886.2	4271112	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	637926.2	4271112	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	637966.2	4271112	4.39E-08	1YrCancerD	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	638086.2	4271112	8.16E-08	1YrCancerD	8.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	638126.2	4271112	4.92E-08	1YrCancerD	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	638166.2	4271112	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	638206.2	4271112	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	638246.2	4271112	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	638326.2	4271112	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	638366.2	4271112	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	633326.2	4271152	3.34E-08	1YrCancerD	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	633366.2	4271152	3.93E-08	1YrCancerD	3.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	633406.2	4271152	4.68E-08	1YrCancerD	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	633446.2	4271152	5.68E-08	1YrCancerD	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	633486.2	4271152	7.12E-08	1YrCancerD	7.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	633526.2	4271152	9.47E-08	1YrCancerD	9.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	633566.2	4271152	1.37E-07	1YrCancerD	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	633606.2	4271152	2.04E-07	1YrCancerD	2.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	633806.2	4271152	1.43E-07	1YrCancerD	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	633846.2	4271152	9.65E-08	1YrCancerD	9.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	633886.2	4271152	7.15E-08	1YrCancerD	7.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	633926.2	4271152	5.62E-08	1YrCancerD	5.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	633966.2	4271152	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	634006.2	4271152	3.88E-08	1YrCancerD	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	634046.2	4271152	3.37E-08	1YrCancerD	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	634086.2	4271152	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	634126.2	4271152	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	634166.2	4271152	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	634206.2	4271152	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	634246.2	4271152	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	634286.2	4271152	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	634326.2	4271152	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	634406.2	4271152	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	634486.2	4271152	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	634526.2	4271152	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	634566.2	4271152	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	634606.2	4271152	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	634646.2	4271152	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	634726.2	4271152	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	634766.2	4271152	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	634806.2	4271152	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	634886.2	4271152	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	634966.2	4271152	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	635006.2	4271152	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	635046.2	4271152	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	635086.2	4271152	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	635166.2	4271152	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	635686.2	4271152	3.71E-08	1YrCancerD	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	635726.2	4271152	3.77E-08	1YrCancerD	3.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	635766.2	4271152	3.78E-08	1YrCancerD	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	635806.2	4271152	3.74E-08	1YrCancerD	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	635846.2	4271152	3.66E-08	1YrCancerD	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	635886.2	4271152	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	635926.2	4271152	3.41E-08	1YrCancerD	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	635966.2	4271152	3.29E-08	1YrCancerD	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	636006.2	4271152	3.18E-08	1YrCancerD	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	636046.2	4271152	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	636086.2	4271152	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	636206.2	4271152	2.86E-08	1YrCancerD	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	636286.2	4271152	2.82E-08	1YrCancerD	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	636326.2	4271152	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	636366.2	4271152	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	636566.2	4271152	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	636606.2	4271152	2.94E-08	1YrCancerD	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	636646.2	4271152	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	636686.2	4271152	3.13E-08	1YrCancerD	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	636766.2	4271152	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	636806.2	4271152	3.80E-08	1YrCancerD	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	636846.2	4271152	4.30E-08	1YrCancerD	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	636886.2	4271152	5.15E-08	1YrCancerD	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	636926.2	4271152	6.90E-08	1YrCancerD	6.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	636966.2	4271152	1.21E-07	1YrCancerD	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	637046.2	4271152	1.07E-07	1YrCancerD	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	637086.2	4271152	6.29E-08	1YrCancerD	6.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	637126.2	4271152	4.69E-08	1YrCancerD	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	637766.2	4271152	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	637806.2	4271152	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	637846.2	4271152	2.05E-08

1391	ALL	637886.2	4271152	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	637926.2	4271152	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	637966.2	4271152	4.43E-08	1YrCancerD	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	633326.2	4271192	3.26E-08	1YrCancerD	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	633366.2	4271192	3.80E-08	1YrCancerD	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	633406.2	4271192	4.49E-08	1YrCancerD	4.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	633446.2	4271192	5.44E-08	1YrCancerD	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	633486.2	4271192	6.91E-08	1YrCancerD	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	633846.2	4271192	9.84E-08	1YrCancerD	9.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	633886.2	4271192	7.30E-08	1YrCancerD	7.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	633966.2	4271192	4.70E-08	1YrCancerD	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	634006.2	4271192	3.97E-08	1YrCancerD	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	634046.2	4271192	3.44E-08	1YrCancerD	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	634086.2	4271192	3.06E-08	1YrCancerD	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	634126.2	4271192	2.76E-08	1YrCancerD	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	634166.2	4271192	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	634206.2	4271192	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	634246.2	4271192	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	634286.2	4271192	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	634326.2	4271192	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	634366.2	4271192	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	634566.2	4271192	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	634606.2	4271192	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	634686.2	4271192	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	634726.2	4271192	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	634766.2	4271192	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	634806.2	4271192	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	634846.2	4271192	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	634966.2	4271192	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	635006.2	4271192	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	635046.2	4271192	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	635086.2	4271192	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	635126.2	4271192	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	635166.2	4271192	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	635246.2	4271192	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	635326.2	4271192	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	635366.2	4271192	2.86E-08	1YrCancerD	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	635406.2	4271192	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	635446.2	4271192	3.16E-08	1YrCancerD	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	635686.2	4271192	4.02E-08	1YrCancerD	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	635726.2	4271192	4.07E-08	1YrCancerD	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	635766.2	4271192	4.06E-08	1YrCancerD	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	635806.2	4271192	3.99E-08	1YrCancerD	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	635846.2	4271192	3.87E-08	1YrCancerD	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	635886.2	4271192	3.73E-08	1YrCancerD	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	635926.2	4271192	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	635966.2	4271192	3.45E-08	1YrCancerD	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	636006.2	4271192	3.34E-08	1YrCancerD	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1439	ALL	636166.2	4271192	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	636246.2	4271192	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	636286.2	4271192	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	636326.2	4271192	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	636366.2	4271192	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	636406.2	4271192	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	636446.2	4271192	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	636486.2	4271192	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	636526.2	4271192	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	636566.2	4271192	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	636606.2	4271192	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	636646.2	4271192	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	636686.2	4271192	3.17E-08	1YrCancerD	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	636726.2	4271192	3.28E-08	1YrCancerD	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	636766.2	4271192	3.43E-08	1YrCancerD	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	636806.2	4271192	3.65E-08	1YrCancerD	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	636846.2	4271192	3.98E-08	1YrCancerD	3.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1456	ALL	636886.2	4271192	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	636926.2	4271192	5.46E-08	1YrCancerD	5.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	636966.2	4271192	7.51E-08	1YrCancerD	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	637006.2	4271192	1.44E-07	1YrCancerD	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	637046.2	4271192	2.38E-07	1YrCancerD	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	637806.2	4271192	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	637846.2	4271192	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	637886.2	4271192	2.41E-08	1YrCancerD	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	637926.2	4271192	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	637966.2	4271192	4.47E-08	1YrCancerD	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	638086.2	4271192	8.00E-08	1YrCancerD	8.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	638126.2	4271192	4.88E-08	1YrCancerD	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	638166.2	4271192	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	638206.2	4271192	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	638246.2	4271192	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	638286.2	4271192	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	638326.2	4271192	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	638366.2	4271192	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	633326.2	4271232	3.17E-08	1YrCancerD	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	633366.2	4271232	3.67E-08	1YrCancerD	3.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	633406.2	4271232	4.31E-08	1YrCancerD	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	633446.2	4271232	5.20E-08	1YrCancerD	5.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	633486.2	4271232	6.71E-08	1YrCancerD	6.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	633526.2	4271232	1.17E-07	1YrCancerD	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	633846.2	4271232	1.00E-07	1YrCancerD	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	633886.2	4271232	7.47E-08	1YrCancerD	7.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	633926.2	4271232	5.88E-08	1YrCancerD	5.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	633966.2	4271232	4.81E-08	1YrCancerD	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	634006.2	4271232	4.07E-08	1YrCancerD	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	634046.2	4271232	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	634086.2	4271232	3.13E-08	1YrCancerD	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	634166.2	4271232	2.60E-08	1YrCancerD	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	634206.2	4271232	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	ALL	634246.2	4271232	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	634646.2	4271232	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	634686.2	4271232	1.88E-08	1YrCancerD	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	634726.2	4271232	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	634766.2	4271232	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	634806.2	4271232	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	634846.2	4271232	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	634886.2	4271232	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	634926.2	4271232	2.10E-08

1498	ALL	635006.2	4271232	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	635046.2	4271232	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	635086.2	4271232	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	635126.2	4271232	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	635166.2	4271232	2.46E-08	1YrCancerD	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	635206.2	4271232	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1504	ALL	635246.2	4271232	2.66E-08	1YrCancerD	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	635286.2	4271232	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	635326.2	4271232	2.93E-08	1YrCancerD	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	635366.2	4271232	3.09E-08	1YrCancerD	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	ALL	635406.2	4271232	3.26E-08	1YrCancerD	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	635446.2	4271232	3.44E-08	1YrCancerD	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	635486.2	4271232	3.62E-08	1YrCancerD	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	635526.2	4271232	3.79E-08	1YrCancerD	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	635566.2	4271232	3.97E-08	1YrCancerD	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	ALL	635606.2	4271232	4.13E-08	1YrCancerD	4.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	635646.2	4271232	4.28E-08	1YrCancerD	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	635686.2	4271232	4.38E-08	1YrCancerD	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	635726.2	4271232	4.41E-08	1YrCancerD	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	635766.2	4271232	4.37E-08	1YrCancerD	4.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	635806.2	4271232	4.27E-08	1YrCancerD	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	635846.2	4271232	4.12E-08	1YrCancerD	4.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	635886.2	4271232	3.95E-08	1YrCancerD	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	635926.2	4271232	3.79E-08	1YrCancerD	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	636086.2	4271232	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	636126.2	4271232	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	636206.2	4271232	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	636246.2	4271232	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	636286.2	4271232	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	636326.2	4271232	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	636366.2	4271232	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529	ALL	636406.2	4271232	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	636446.2	4271232	3.22E-08	1YrCancerD	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	636486.2	4271232	3.22E-08	1YrCancerD	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	636526.2	4271232	3.22E-08	1YrCancerD	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	636566.2	4271232	3.22E-08	1YrCancerD	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	636606.2	4271232	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	636646.2	4271232	3.25E-08	1YrCancerD	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	636686.2	4271232	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	636726.2	4271232	3.37E-08	1YrCancerD	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	636766.2	4271232	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	636806.2	4271232	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	636846.2	4271232	3.85E-08	1YrCancerD	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	636886.2	4271232	4.21E-08	1YrCancerD	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	636926.2	4271232	4.78E-08	1YrCancerD	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	636966.2	4271232	5.85E-08	1YrCancerD	5.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	637006.2	4271232	8.28E-08	1YrCancerD	8.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	637806.2	4271232	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	637846.2	4271232	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547	ALL	637886.2	4271232	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	637926.2	4271232	3.06E-08	1YrCancerD	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	637966.2	4271232	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	638086.2	4271232	7.91E-08	1YrCancerD	7.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	638126.2	4271232	4.86E-08	1YrCancerD	4.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	638166.2	4271232	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	638206.2	4271232	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	638246.2	4271232	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	638286.2	4271232	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	638326.2	4271232	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	638366.2	4271232	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	633326.2	4271272	3.07E-08	1YrCancerD	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	633366.2	4271272	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	633406.2	4271272	4.13E-08	1YrCancerD	4.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	633446.2	4271272	4.97E-08	1YrCancerD	4.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	633486.2	4271272	6.42E-08	1YrCancerD	6.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	633526.2	4271272	1.05E-07	1YrCancerD	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	633606.2	4271272	1.55E-07	1YrCancerD	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	633646.2	4271272	1.37E-07	1YrCancerD	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	633686.2	4271272	1.38E-07	1YrCancerD	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	633846.2	4271272	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	633886.2	4271272	7.62E-08	1YrCancerD	7.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	633926.2	4271272	6.01E-08	1YrCancerD	6.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	633966.2	4271272	4.93E-08	1YrCancerD	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	634006.2	4271272	4.18E-08	1YrCancerD	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	634046.2	4271272	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	634086.2	4271272	3.22E-08	1YrCancerD	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1574	ALL	634246.2	4271272	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	634286.2	4271272	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	634686.2	4271272	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	634726.2	4271272	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	634766.2	4271272	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	634806.2	4271272	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	634846.2	4271272	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	634886.2	4271272	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	634926.2	4271272	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	634966.2	4271272	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	635006.2	4271272	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	635086.2	4271272	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	635126.2	4271272	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL	635166.2	4271272	2.62E-08	1YrCancerD	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1588	ALL	635206.2	4271272	2.73E-08	1YrCancerD	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL	635246.2	4271272	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1590	ALL	635286.2	4271272	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1591	ALL	635326.2	4271272	3.17E-08	1YrCancerD	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1592	ALL	635366.2	4271272	3.35E-08	1YrCancerD	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL	635406.2	4271272	3.55E-08	1YrCancerD	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1594	ALL	635446.2	4271272	3.76E-08	1YrCancerD	3.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1595	ALL	635486.2	4271272	3.96E-08	1YrCancerD	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1596	ALL	635526.2	4271272	4.16E-08	1YrCancerD	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1597	ALL	635566.2	4271272	4.36E-08	1YrCancerD	4.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1598	ALL	635606.2	4271272	4.54E-08	1YrCancerD	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1599	ALL	635646.2	4271272	4.69E-08	1YrCancerD	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	ALL	635686.2	4271272	4.79E-08	1YrCancerD	4.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1601	ALL	635726.2	4271272	4.80E-08	1YrCancerD	4.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1602	ALL	635766.2	4271272	4.73E-08	1YrCancerD	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL	635806.2	4271272	4.58E-08	1YrCancerD	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL	635846.2	4271272	4.40E-08

1605	ALL	636046.2	4271272	3.69E-08	1YrCancerD	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	636086.2	4271272	3.62E-08	1YrCancerD	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	636166.2	4271272	3.55E-08	1YrCancerD	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	636206.2	4271272	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	636246.2	4271272	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	636286.2	4271272	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	636326.2	4271272	3.55E-08	1YrCancerD	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	636366.2	4271272	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	636406.2	4271272	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	636446.2	4271272	3.60E-08	1YrCancerD	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	636486.2	4271272	3.60E-08	1YrCancerD	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	636526.2	4271272	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	636566.2	4271272	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1618	ALL	636606.2	4271272	3.55E-08	1YrCancerD	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1619	ALL	636646.2	4271272	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1620	ALL	636686.2	4271272	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1621	ALL	636726.2	4271272	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1622	ALL	636766.2	4271272	3.65E-08	1YrCancerD	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1623	ALL	636806.2	4271272	3.75E-08	1YrCancerD	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1624	ALL	636846.2	4271272	3.90E-08	1YrCancerD	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1625	ALL	636886.2	4271272	4.14E-08	1YrCancerD	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1626	ALL	636926.2	4271272	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1627	ALL	636966.2	4271272	5.16E-08	1YrCancerD	5.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1628	ALL	637006.2	4271272	6.38E-08	1YrCancerD	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1629	ALL	637046.2	4271272	9.36E-08	1YrCancerD	9.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1630	ALL	638086.2	4271272	7.83E-08	1YrCancerD	7.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1631	ALL	638126.2	4271272	4.84E-08	1YrCancerD	4.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1632	ALL	638166.2	4271272	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1633	ALL	638206.2	4271272	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1634	ALL	638246.2	4271272	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1635	ALL	638286.2	4271272	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1636	ALL	638326.2	4271272	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1637	ALL	638366.2	4271272	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1638	ALL	633366.2	4271312	3.40E-08	1YrCancerD	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1639	ALL	633406.2	4271312	3.96E-08	1YrCancerD	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1640	ALL	633446.2	4271312	4.73E-08	1YrCancerD	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1641	ALL	633486.2	4271312	6.03E-08	1YrCancerD	6.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1642	ALL	633526.2	4271312	8.84E-08	1YrCancerD	8.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1643	ALL	633606.2	4271312	1.59E-07	1YrCancerD	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1644	ALL	633646.2	4271312	1.16E-07	1YrCancerD	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1645	ALL	633686.2	4271312	1.11E-07	1YrCancerD	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1646	ALL	633846.2	4271312	1.06E-07	1YrCancerD	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1647	ALL	633886.2	4271312	7.78E-08	1YrCancerD	7.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1648	ALL	633926.2	4271312	6.14E-08	1YrCancerD	6.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1649	ALL	634006.2	4271312	4.30E-08	1YrCancerD	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1650	ALL	634126.2	4271312	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1651	ALL	634166.2	4271312	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1652	ALL	634206.2	4271312	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1653	ALL	634246.2	4271312	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1654	ALL	634726.2	4271312	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1655	ALL	634766.2	4271312	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1656	ALL	634846.2	4271312	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1657	ALL	634886.2	4271312	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1658	ALL	634926.2	4271312	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1659	ALL	634966.2	4271312	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1660	ALL	635046.2	4271312	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1661	ALL	635086.2	4271312	2.59E-08	1YrCancerD	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1662	ALL	635166.2	4271312	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1663	ALL	635206.2	4271312	2.92E-08	1YrCancerD	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1664	ALL	635246.2	4271312	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1665	ALL	635286.2	4271312	3.25E-08	1YrCancerD	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1666	ALL	635326.2	4271312	3.45E-08	1YrCancerD	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1667	ALL	635406.2	4271312	3.90E-08	1YrCancerD	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1668	ALL	635446.2	4271312	4.14E-08	1YrCancerD	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1669	ALL	635486.2	4271312	4.37E-08	1YrCancerD	4.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1670	ALL	635526.2	4271312	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1671	ALL	635566.2	4271312	4.82E-08	1YrCancerD	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1672	ALL	635606.2	4271312	5.03E-08	1YrCancerD	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1673	ALL	635646.2	4271312	5.19E-08	1YrCancerD	5.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1674	ALL	635686.2	4271312	5.28E-08	1YrCancerD	5.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1675	ALL	635726.2	4271312	5.26E-08	1YrCancerD	5.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1676	ALL	635766.2	4271312	5.13E-08	1YrCancerD	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1677	ALL	635926.2	4271312	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1678	ALL	635966.2	4271312	4.22E-08	1YrCancerD	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1679	ALL	636006.2	4271312	4.12E-08	1YrCancerD	4.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1680	ALL	636126.2	4271312	4.00E-08	1YrCancerD	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1681	ALL	636166.2	4271312	4.00E-08	1YrCancerD	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1682	ALL	636206.2	4271312	4.01E-08	1YrCancerD	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1683	ALL	636246.2	4271312	4.04E-08	1YrCancerD	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1684	ALL	636286.2	4271312	4.09E-08	1YrCancerD	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1685	ALL	636326.2	4271312	4.15E-08	1YrCancerD	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1686	ALL	636366.2	4271312	4.22E-08	1YrCancerD	4.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1687	ALL	636406.2	4271312	4.28E-08	1YrCancerD	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1688	ALL	636446.2	4271312	4.31E-08	1YrCancerD	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1689	ALL	636486.2	4271312	4.30E-08	1YrCancerD	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1690	ALL	636526.2	4271312	4.26E-08	1YrCancerD	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1691	ALL	636566.2	4271312	4.20E-08	1YrCancerD	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1692	ALL	636606.2	4271312	4.14E-08	1YrCancerD	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1693	ALL	636646.2	4271312	4.09E-08	1YrCancerD	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1694	ALL	636686.2	4271312	4.06E-08	1YrCancerD	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1695	ALL	636726.2	4271312	4.04E-08	1YrCancerD	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1696	ALL	636766.2	4271312	4.05E-08	1YrCancerD	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1697	ALL	636806.2	4271312	4.09E-08	1YrCancerD	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1698	ALL	636846.2	4271312	4.17E-08	1YrCancerD	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1699	ALL	636886.2	4271312	4.32E-08	1YrCancerD	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	ALL	636926.2	4271312	4.57E-08	1YrCancerD	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1701	ALL	636966.2	4271312	5.00E-08	1YrCancerD	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1702	ALL	637006.2	4271312	5.77E-08	1YrCancerD	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1703	ALL	637046.2	4271312	7.33E-08	1YrCancerD	7.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1704	ALL	637086.2	4271312	1.13E-07	1YrCancerD	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1705	ALL	637846.2	4271312	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1706	ALL	637886.2	4271312	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1707	ALL	637966.2	4271312	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1708	ALL	638086.2	4271312	7.75E-08	1YrCancerD	7.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1709	ALL	638126.2	4271312	4.82E-08	1YrCancerD	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1710	ALL	638166.2	4271312	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1711	ALL	638206.2	4271312	2.85E-08

1712	ALL	638246.2	4271312	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1713	ALL	638286.2	4271312	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1714	ALL	638326.2	4271312	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1715	ALL	638366.2	4271312	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1716	ALL	633366.2	4271352	3.28E-08	1YrCancerD	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1717	ALL	633406.2	4271352	3.78E-08	1YrCancerD	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1718	ALL	633446.2	4271352	4.48E-08	1YrCancerD	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1719	ALL	633486.2	4271352	5.59E-08	1YrCancerD	5.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1720	ALL	633526.2	4271352	7.55E-08	1YrCancerD	7.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1721	ALL	633566.2	4271352	1.35E-07	1YrCancerD	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1722	ALL	633606.2	4271352	2.00E-07	1YrCancerD	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1723	ALL	633646.2	4271352	1.10E-07	1YrCancerD	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1724	ALL	633686.2	4271352	9.65E-08	1YrCancerD	9.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1725	ALL	633726.2	4271352	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1726	ALL	633886.2	4271352	8.03E-08	1YrCancerD	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1727	ALL	634006.2	4271352	4.43E-08	1YrCancerD	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1728	ALL	634046.2	4271352	3.86E-08	1YrCancerD	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1729	ALL	634086.2	4271352	3.42E-08	1YrCancerD	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1730	ALL	634126.2	4271352	3.09E-08	1YrCancerD	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1731	ALL	634806.2	4271352	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1732	ALL	634846.2	4271352	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1733	ALL	634886.2	4271352	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1734	ALL	634926.2	4271352	2.41E-08	1YrCancerD	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1735	ALL	634966.2	4271352	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1736	ALL	635006.2	4271352	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1737	ALL	635046.2	4271352	2.66E-08	1YrCancerD	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1738	ALL	635126.2	4271352	2.86E-08	1YrCancerD	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1739	ALL	635206.2	4271352	3.15E-08	1YrCancerD	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1740	ALL	635246.2	4271352	3.33E-08	1YrCancerD	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1741	ALL	635326.2	4271352	3.78E-08	1YrCancerD	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1742	ALL	635366.2	4271352	4.04E-08	1YrCancerD	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1743	ALL	635406.2	4271352	4.31E-08	1YrCancerD	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1744	ALL	635446.2	4271352	4.59E-08	1YrCancerD	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1745	ALL	635486.2	4271352	4.86E-08	1YrCancerD	4.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1746	ALL	635526.2	4271352	5.13E-08	1YrCancerD	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1747	ALL	635566.2	4271352	5.38E-08	1YrCancerD	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1748	ALL	635606.2	4271352	5.61E-08	1YrCancerD	5.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1749	ALL	635646.2	4271352	5.79E-08	1YrCancerD	5.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1750	ALL	635686.2	4271352	5.86E-08	1YrCancerD	5.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1751	ALL	635846.2	4271352	5.12E-08	1YrCancerD	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1752	ALL	635886.2	4271352	4.93E-08	1YrCancerD	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1753	ALL	636006.2	4271352	4.67E-08	1YrCancerD	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1754	ALL	636046.2	4271352	4.67E-08	1YrCancerD	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1755	ALL	636086.2	4271352	4.69E-08	1YrCancerD	4.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1756	ALL	636126.2	4271352	4.75E-08	1YrCancerD	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1757	ALL	636166.2	4271352	4.82E-08	1YrCancerD	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1758	ALL	636206.2	4271352	4.90E-08	1YrCancerD	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1759	ALL	636246.2	4271352	5.03E-08	1YrCancerD	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1760	ALL	636286.2	4271352	5.21E-08	1YrCancerD	5.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1761	ALL	636326.2	4271352	5.43E-08	1YrCancerD	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1762	ALL	636366.2	4271352	5.70E-08	1YrCancerD	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1763	ALL	636406.2	4271352	5.91E-08	1YrCancerD	5.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1764	ALL	636606.2	4271352	5.45E-08	1YrCancerD	5.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1765	ALL	636646.2	4271352	5.29E-08	1YrCancerD	5.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1766	ALL	636686.2	4271352	5.15E-08	1YrCancerD	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1767	ALL	636726.2	4271352	5.04E-08	1YrCancerD	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1768	ALL	636766.2	4271352	4.95E-08	1YrCancerD	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1769	ALL	636806.2	4271352	4.89E-08	1YrCancerD	4.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1770	ALL	636846.2	4271352	4.88E-08	1YrCancerD	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1771	ALL	636886.2	4271352	4.93E-08	1YrCancerD	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1772	ALL	636926.2	4271352	5.07E-08	1YrCancerD	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1773	ALL	636966.2	4271352	5.38E-08	1YrCancerD	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1774	ALL	637006.2	4271352	6.03E-08	1YrCancerD	6.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1775	ALL	637046.2	4271352	7.41E-08	1YrCancerD	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1776	ALL	637086.2	4271352	1.07E-07	1YrCancerD	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1777	ALL	637846.2	4271352	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1778	ALL	637886.2	4271352	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1779	ALL	637966.2	4271352	4.65E-08	1YrCancerD	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1780	ALL	638086.2	4271352	7.67E-08	1YrCancerD	7.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1781	ALL	638126.2	4271352	4.80E-08	1YrCancerD	4.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1782	ALL	638166.2	4271352	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1783	ALL	638206.2	4271352	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1784	ALL	638246.2	4271352	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1785	ALL	638286.2	4271352	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1786	ALL	638326.2	4271352	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1787	ALL	638366.2	4271352	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1788	ALL	633366.2	4271392	3.15E-08	1YrCancerD	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1789	ALL	633406.2	4271392	3.60E-08	1YrCancerD	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1790	ALL	633446.2	4271392	4.23E-08	1YrCancerD	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1791	ALL	633486.2	4271392	5.14E-08	1YrCancerD	5.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1792	ALL	633526.2	4271392	6.56E-08	1YrCancerD	6.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1793	ALL	633566.2	4271392	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1794	ALL	633646.2	4271392	1.15E-07	1YrCancerD	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1795	ALL	633686.2	4271392	8.94E-08	1YrCancerD	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1796	ALL	633726.2	4271392	8.83E-08	1YrCancerD	8.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1797	ALL	633886.2	4271392	8.50E-08	1YrCancerD	8.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1798	ALL	633926.2	4271392	6.51E-08	1YrCancerD	6.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1799	ALL	633966.2	4271392	5.37E-08	1YrCancerD	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	ALL	634006.2	4271392	4.58E-08	1YrCancerD	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1801	ALL	634046.2	4271392	3.99E-08	1YrCancerD	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1802	ALL	634086.2	4271392	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1803	ALL	634126.2	4271392	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1804	ALL	634166.2	4271392	2.94E-08	1YrCancerD	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1805	ALL	634246.2	4271392	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1806	ALL	634286.2	4271392	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1807	ALL	634846.2	4271392	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1808	ALL	634886.2	4271392	2.46E-08	1YrCancerD	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1809	ALL	634926.2	4271392	2.54E-08	1YrCancerD	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1810	ALL	634966.2	4271392	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1811	ALL	635006.2	4271392	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1812	ALL	635126.2	4271392	3.07E-08	1YrCancerD	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1813	ALL	635166.2	4271392	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1814	ALL	635246.2	4271392	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1815	ALL	635286.2	4271392	3.89E-08	1YrCancerD	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1816	ALL	635326.2	4271392	4.17E-08	1YrCancerD	4.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1817	ALL	635366.2	4271392	4.48E-08	1YrCancerD	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1818	ALL	635406.2	4271392	4.80E-08

1819	ALL	635446.2	4271392	5.13E-08	1YrCancerD	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1820	ALL	635486.2	4271392	5.45E-08	1YrCancerD	5.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1821	ALL	635526.2	4271392	5.77E-08	1YrCancerD	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1822	ALL	635566.2	4271392	6.06E-08	1YrCancerD	6.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1823	ALL	635606.2	4271392	6.33E-08	1YrCancerD	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1824	ALL	635766.2	4271392	6.17E-08	1YrCancerD	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1825	ALL	635806.2	4271392	5.91E-08	1YrCancerD	5.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1826	ALL	635886.2	4271392	5.56E-08	1YrCancerD	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1827	ALL	635926.2	4271392	5.53E-08	1YrCancerD	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1828	ALL	635966.2	4271392	5.57E-08	1YrCancerD	5.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1829	ALL	636006.2	4271392	5.70E-08	1YrCancerD	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1830	ALL	636046.2	4271392	5.88E-08	1YrCancerD	5.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1831	ALL	636086.2	4271392	6.12E-08	1YrCancerD	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1832	ALL	636126.2	4271392	6.42E-08	1YrCancerD	6.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1833	ALL	636166.2	4271392	6.72E-08	1YrCancerD	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1834	ALL	636206.2	4271392	7.14E-08	1YrCancerD	7.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1835	ALL	636246.2	4271392	7.74E-08	1YrCancerD	7.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1836	ALL	636286.2	4271392	8.57E-08	1YrCancerD	8.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1837	ALL	636326.2	4271392	9.80E-08	1YrCancerD	9.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1838	ALL	636366.2	4271392	1.15E-07	1YrCancerD	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1839	ALL	636406.2	4271392	1.28E-07	1YrCancerD	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1840	ALL	636446.2	4271392	1.32E-07	1YrCancerD	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1841	ALL	636486.2	4271392	1.33E-07	1YrCancerD	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1842	ALL	636526.2	4271392	1.22E-07	1YrCancerD	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1843	ALL	636566.2	4271392	1.10E-07	1YrCancerD	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1844	ALL	636606.2	4271392	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1845	ALL	636646.2	4271392	9.28E-08	1YrCancerD	9.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1846	ALL	636686.2	4271392	8.61E-08	1YrCancerD	8.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1847	ALL	636726.2	4271392	8.03E-08	1YrCancerD	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1848	ALL	636766.2	4271392	7.56E-08	1YrCancerD	7.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1849	ALL	636806.2	4271392	7.19E-08	1YrCancerD	7.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1850	ALL	636846.2	4271392	6.90E-08	1YrCancerD	6.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1851	ALL	636886.2	4271392	6.70E-08	1YrCancerD	6.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1852	ALL	636926.2	4271392	6.66E-08	1YrCancerD	6.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1853	ALL	636966.2	4271392	6.92E-08	1YrCancerD	6.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1854	ALL	637006.2	4271392	7.98E-08	1YrCancerD	7.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1855	ALL	637046.2	4271392	1.10E-07	1YrCancerD	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1856	ALL	637846.2	4271392	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1857	ALL	637886.2	4271392	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1858	ALL	637966.2	4271392	4.70E-08	1YrCancerD	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1859	ALL	638086.2	4271392	7.60E-08	1YrCancerD	7.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1860	ALL	638126.2	4271392	4.78E-08	1YrCancerD	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1861	ALL	638166.2	4271392	3.55E-08	1YrCancerD	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1862	ALL	638206.2	4271392	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1863	ALL	638246.2	4271392	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1864	ALL	638286.2	4271392	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1865	ALL	638326.2	4271392	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1866	ALL	638366.2	4271392	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1867	ALL	633406.2	4271432	3.43E-08	1YrCancerD	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1868	ALL	633446.2	4271432	3.98E-08	1YrCancerD	3.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1869	ALL	633486.2	4271432	4.71E-08	1YrCancerD	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1870	ALL	633526.2	4271432	5.76E-08	1YrCancerD	5.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1871	ALL	633566.2	4271432	8.02E-08	1YrCancerD	8.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1872	ALL	633646.2	4271432	1.32E-07	1YrCancerD	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1873	ALL	633766.2	4271432	8.85E-08	1YrCancerD	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1874	ALL	633926.2	4271432	6.94E-08	1YrCancerD	6.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1875	ALL	633966.2	4271432	5.63E-08	1YrCancerD	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1876	ALL	634006.2	4271432	4.77E-08	1YrCancerD	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1877	ALL	634046.2	4271432	4.15E-08	1YrCancerD	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1878	ALL	634086.2	4271432	3.68E-08	1YrCancerD	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1879	ALL	634126.2	4271432	3.32E-08	1YrCancerD	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1880	ALL	634166.2	4271432	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1881	ALL	634966.2	4271432	2.78E-08	1YrCancerD	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1882	ALL	635006.2	4271432	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1883	ALL	635046.2	4271432	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1884	ALL	635086.2	4271432	3.15E-08	1YrCancerD	3.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1885	ALL	635166.2	4271432	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1886	ALL	635206.2	4271432	3.72E-08	1YrCancerD	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1887	ALL	635246.2	4271432	3.98E-08	1YrCancerD	3.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1888	ALL	635286.2	4271432	4.29E-08	1YrCancerD	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1889	ALL	635326.2	4271432	4.64E-08	1YrCancerD	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1890	ALL	635366.2	4271432	5.01E-08	1YrCancerD	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1891	ALL	635406.2	4271432	5.39E-08	1YrCancerD	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1892	ALL	635486.2	4271432	6.18E-08	1YrCancerD	6.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1893	ALL	635526.2	4271432	6.56E-08	1YrCancerD	6.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1894	ALL	635686.2	4271432	7.42E-08	1YrCancerD	7.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1895	ALL	635726.2	4271432	7.21E-08	1YrCancerD	7.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1896	ALL	635806.2	4271432	6.73E-08	1YrCancerD	6.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1897	ALL	635846.2	4271432	6.65E-08	1YrCancerD	6.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1898	ALL	635886.2	4271432	6.74E-08	1YrCancerD	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1899	ALL	635926.2	4271432	7.06E-08	1YrCancerD	7.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	ALL	636006.2	4271432	8.43E-08	1YrCancerD	8.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1901	ALL	636046.2	4271432	9.49E-08	1YrCancerD	9.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1902	ALL	636086.2	4271432	1.11E-07	1YrCancerD	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1903	ALL	636126.2	4271432	1.34E-07	1YrCancerD	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1904	ALL	637846.2	4271432	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1905	ALL	637886.2	4271432	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1906	ALL	637966.2	4271432	4.76E-08	1YrCancerD	4.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1907	ALL	638086.2	4271432	7.53E-08	1YrCancerD	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1908	ALL	638126.2	4271432	4.76E-08	1YrCancerD	4.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1909	ALL	638166.2	4271432	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1910	ALL	638206.2	4271432	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1911	ALL	638246.2	4271432	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1912	ALL	638366.2	4271432	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1913	ALL	633406.2	4271472	3.26E-08	1YrCancerD	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1914	ALL	633446.2	4271472	3.73E-08	1YrCancerD	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1915	ALL	633486.2	4271472	4.31E-08	1YrCancerD	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1916	ALL	633526.2	4271472	5.12E-08	1YrCancerD	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1917	ALL	633766.2	4271472	7.78E-08	1YrCancerD	7.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1918	ALL	633806.2	4271472	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1919	ALL	633886.2	4271472	1.20

1926	ALL	635126.2	4271472	3.58E-08	1YrCancerD	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1927	ALL	635166.2	4271472	3.80E-08	1YrCancerD	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1928	ALL	635206.2	4271472	4.07E-08	1YrCancerD	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1929	ALL	635246.2	4271472	4.40E-08	1YrCancerD	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1930	ALL	635286.2	4271472	4.78E-08	1YrCancerD	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1931	ALL	635326.2	4271472	5.20E-08	1YrCancerD	5.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1932	ALL	635406.2	4271472	6.11E-08	1YrCancerD	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1933	ALL	635446.2	4271472	6.59E-08	1YrCancerD	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1934	ALL	635606.2	4271472	8.39E-08	1YrCancerD	8.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1935	ALL	635646.2	4271472	8.61E-08	1YrCancerD	8.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1936	ALL	635686.2	4271472	8.54E-08	1YrCancerD	8.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1937	ALL	635726.2	4271472	8.31E-08	1YrCancerD	8.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1938	ALL	635766.2	4271472	8.13E-08	1YrCancerD	8.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1939	ALL	635806.2	4271472	8.22E-08	1YrCancerD	8.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1940	ALL	635846.2	4271472	8.70E-08	1YrCancerD	8.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1941	ALL	635886.2	4271472	9.95E-08	1YrCancerD	9.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1942	ALL	635926.2	4271472	1.24E-07	1YrCancerD	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1943	ALL	637846.2	4271472	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1944	ALL	637886.2	4271472	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	ALL	637966.2	4271472	4.81E-08	1YrCancerD	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	ALL	638086.2	4271472	7.46E-08	1YrCancerD	7.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	ALL	638126.2	4271472	4.74E-08	1YrCancerD	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	ALL	638166.2	4271472	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	ALL	638206.2	4271472	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1950	ALL	638326.2	4271472	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1951	ALL	638366.2	4271472	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1952	ALL	633406.2	4271512	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1953	ALL	633446.2	4271512	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1954	ALL	633486.2	4271512	3.96E-08	1YrCancerD	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1955	ALL	633806.2	4271512	8.13E-08	1YrCancerD	8.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1956	ALL	633926.2	4271512	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1957	ALL	633966.2	4271512	6.91E-08	1YrCancerD	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1958	ALL	634126.2	4271512	3.68E-08	1YrCancerD	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1959	ALL	634166.2	4271512	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1960	ALL	634206.2	4271512	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1961	ALL	634246.2	4271512	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1962	ALL	634286.2	4271512	2.76E-08	1YrCancerD	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1963	ALL	634326.2	4271512	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1964	ALL	634366.2	4271512	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1965	ALL	634406.2	4271512	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1966	ALL	634446.2	4271512	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1967	ALL	635006.2	4271512	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1968	ALL	635166.2	4271512	4.16E-08	1YrCancerD	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1969	ALL	635206.2	4271512	4.49E-08	1YrCancerD	4.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1970	ALL	635246.2	4271512	4.90E-08	1YrCancerD	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1971	ALL	635326.2	4271512	5.88E-08	1YrCancerD	5.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1972	ALL	635366.2	4271512	6.43E-08	1YrCancerD	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1973	ALL	635526.2	4271512	8.90E-08	1YrCancerD	8.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1974	ALL	635566.2	4271512	9.49E-08	1YrCancerD	9.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	ALL	635606.2	4271512	9.98E-08	1YrCancerD	9.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	ALL	635646.2	4271512	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	ALL	635686.2	4271512	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	ALL	635726.2	4271512	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1979	ALL	635766.2	4271512	1.07E-07	1YrCancerD	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	ALL	635806.2	4271512	1.26E-07	1YrCancerD	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	ALL	635846.2	4271512	1.79E-07	1YrCancerD	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	ALL	637846.2	4271512	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	ALL	637886.2	4271512	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1984	ALL	637966.2	4271512	4.87E-08	1YrCancerD	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1985	ALL	638086.2	4271512	7.39E-08	1YrCancerD	7.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1986	ALL	638126.2	4271512	4.72E-08	1YrCancerD	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1987	ALL	638166.2	4271512	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1988	ALL	638206.2	4271512	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1989	ALL	638286.2	4271512	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1990	ALL	638326.2	4271512	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1991	ALL	638366.2	4271512	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1992	ALL	633406.2	4271552	2.94E-08	1YrCancerD	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1993	ALL	633446.2	4271552	3.26E-08	1YrCancerD	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1994	ALL	633486.2	4271552	3.64E-08	1YrCancerD	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1995	ALL	633526.2	4271552	4.15E-08	1YrCancerD	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1996	ALL	633766.2	4271552	6.69E-08	1YrCancerD	6.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1997	ALL	633806.2	4271552	6.95E-08	1YrCancerD	6.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1998	ALL	633846.2	4271552	8.58E-08	1YrCancerD	8.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1999	ALL	634086.2	4271552	4.45E-08	1YrCancerD	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2000	ALL	634126.2	4271552	3.95E-08	1YrCancerD	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2001	ALL	634166.2	4271552	3.57E-08	1YrCancerD	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2002	ALL	634206.2	4271552	3.29E-08	1YrCancerD	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2003	ALL	634246.2	4271552	3.07E-08	1YrCancerD	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2004	ALL	634286.2	4271552	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2005	ALL	634326.2	4271552	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2006	ALL	634366.2	4271552	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2007	ALL	634406.2	4271552	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2008	ALL	634446.2	4271552	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2009	ALL	634486.2	4271552	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2010	ALL	634526.2	4271552	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2011	ALL	634566.2	4271552	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2012	ALL	635446.2	4271552	8.96E-08	1YrCancerD	8.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2013	ALL	635486.2	4271552	9.84E-08	1YrCancerD	9.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2014	ALL	635526.2	4271552	1.08E-07	1YrCancerD	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2015	ALL	635566.2	4271552	1.16E-07	1YrCancerD	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2016	ALL	635606.2	4271552	1.23E-07	1YrCancerD	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2017	ALL	635646.2	4271552	1.26E-07	1YrCancerD	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2018	ALL	635686.2	4271552	1.27E-07	1YrCancerD	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	ALL	635726.2	4271552	1.44E-07	1YrCancerD	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2020	ALL	635766.2	4271552	2.31E-07	1YrCancerD	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2021	ALL	633446.2	4271592	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2022	ALL	633486.2	4271592	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2023	ALL	633526.2	4271592	3.78E-08	1YrCancerD	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2024	ALL	633646.2	4271592	1.25E-07	1YrCancerD	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2025	ALL	633686.2	4271592	1.60E-07	1YrCancerD	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2026	ALL	633726.2	4271592	8.12E-08	1YrCancerD	8.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2027	ALL	633766.2	4271592	6.53E-08	1YrCancerD	6.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2028	ALL	633806.2	4271592	6.27E-08	1YrCancerD	6.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2029	ALL	634046.2	4271592	6.11E-08	1YrCancerD	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	ALL	634086.2	4271592	5.00E-08	1YrCancerD	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2031	ALL	634126.2	4271592	4.32E-08	1YrCancerD	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2032	ALL	634166.2	4271592	3.86E-08

2033	ALL	634206.2	4271592	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2034	ALL	634246.2	4271592	3.29E-08	1YrCancerD	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2035	ALL	634286.2	4271592	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2036	ALL	634326.2	4271592	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2037	ALL	634366.2	4271592	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2038	ALL	634406.2	4271592	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2039	ALL	634446.2	4271592	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2040	ALL	634486.2	4271592	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2041	ALL	634526.2	4271592	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2042	ALL	634566.2	4271592	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2043	ALL	634606.2	4271592	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2044	ALL	634646.2	4271592	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2045	ALL	635086.2	4271592	4.34E-08	1YrCancerD	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2046	ALL	635126.2	4271592	4.67E-08	1YrCancerD	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2047	ALL	635166.2	4271592	5.08E-08	1YrCancerD	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2048	ALL	635206.2	4271592	5.59E-08	1YrCancerD	5.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2049	ALL	635366.2	4271592	8.65E-08	1YrCancerD	8.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2050	ALL	635406.2	4271592	9.66E-08	1YrCancerD	9.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2051	ALL	635446.2	4271592	1.08E-07	1YrCancerD	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2052	ALL	635486.2	4271592	1.21E-07	1YrCancerD	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2053	ALL	635526.2	4271592	1.35E-07	1YrCancerD	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2054	ALL	635566.2	4271592	1.49E-07	1YrCancerD	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2055	ALL	635606.2	4271592	1.59E-07	1YrCancerD	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2056	ALL	635646.2	4271592	1.65E-07	1YrCancerD	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2057	ALL	635686.2	4271592	2.00E-07	1YrCancerD	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2058	ALL	638046.2	4271592	1.83E-07	1YrCancerD	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2059	ALL	638086.2	4271592	7.26E-08	1YrCancerD	7.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2060	ALL	638126.2	4271592	4.68E-08	1YrCancerD	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2061	ALL	638166.2	4271592	3.51E-08	1YrCancerD	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2062	ALL	638206.2	4271592	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2063	ALL	638246.2	4271592	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2064	ALL	638286.2	4271592	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2065	ALL	638326.2	4271592	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2066	ALL	638366.2	4271592	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2067	ALL	633446.2	4271632	2.86E-08	1YrCancerD	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2068	ALL	633486.2	4271632	3.12E-08	1YrCancerD	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2069	ALL	633526.2	4271632	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2070	ALL	633566.2	4271632	4.05E-08	1YrCancerD	4.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2071	ALL	633606.2	4271632	5.23E-08	1YrCancerD	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2072	ALL	633646.2	4271632	8.90E-08	1YrCancerD	8.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2073	ALL	634046.2	4271632	8.29E-08	1YrCancerD	8.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2074	ALL	634086.2	4271632	6.02E-08	1YrCancerD	6.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2075	ALL	634126.2	4271632	4.93E-08	1YrCancerD	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2076	ALL	634166.2	4271632	4.29E-08	1YrCancerD	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2077	ALL	634206.2	4271632	3.88E-08	1YrCancerD	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2078	ALL	634246.2	4271632	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2079	ALL	634286.2	4271632	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2080	ALL	634326.2	4271632	3.22E-08	1YrCancerD	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2081	ALL	634366.2	4271632	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2082	ALL	634406.2	4271632	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2083	ALL	634446.2	4271632	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2084	ALL	634486.2	4271632	2.92E-08	1YrCancerD	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2085	ALL	634526.2	4271632	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2086	ALL	634566.2	4271632	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2087	ALL	634606.2	4271632	2.92E-08	1YrCancerD	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2088	ALL	634646.2	4271632	2.95E-08	1YrCancerD	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2089	ALL	634686.2	4271632	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2090	ALL	635086.2	4271632	4.77E-08	1YrCancerD	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2091	ALL	635126.2	4271632	5.18E-08	1YrCancerD	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2092	ALL	635166.2	4271632	5.68E-08	1YrCancerD	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2093	ALL	635286.2	4271632	8.04E-08	1YrCancerD	8.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2094	ALL	635326.2	4271632	9.09E-08	1YrCancerD	9.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2095	ALL	635366.2	4271632	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2096	ALL	635406.2	4271632	1.17E-07	1YrCancerD	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2097	ALL	635446.2	4271632	1.34E-07	1YrCancerD	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2098	ALL	635486.2	4271632	1.55E-07	1YrCancerD	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2099	ALL	635526.2	4271632	1.80E-07	1YrCancerD	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2100	ALL	635566.2	4271632	2.05E-07	1YrCancerD	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2101	ALL	635606.2	4271632	2.26E-07	1YrCancerD	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2102	ALL	635646.2	4271632	2.76E-07	1YrCancerD	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2103	ALL	638046.2	4271632	1.78E-07	1YrCancerD	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2104	ALL	638086.2	4271632	7.20E-08	1YrCancerD	7.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2105	ALL	638126.2	4271632	4.66E-08	1YrCancerD	4.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2106	ALL	638166.2	4271632	3.51E-08	1YrCancerD	3.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2107	ALL	638206.2	4271632	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2108	ALL	638246.2	4271632	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2109	ALL	638286.2	4271632	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2110	ALL	638326.2	4271632	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2111	ALL	638366.2	4271632	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2112	ALL	634126.2	4271672	6.06E-08	1YrCancerD	6.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2113	ALL	634166.2	4271672	5.04E-08	1YrCancerD	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2114	ALL	634206.2	4271672	4.47E-08	1YrCancerD	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2115	ALL	634246.2	4271672	4.09E-08	1YrCancerD	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2116	ALL	634286.2	4271672	3.80E-08	1YrCancerD	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2117	ALL	634326.2	4271672	3.58E-08	1YrCancerD	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2118	ALL	634366.2	4271672	3.43E-08	1YrCancerD	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2119	ALL	634406.2	4271672	3.33E-08	1YrCancerD	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2120	ALL	634446.2	4271672	3.25E-08	1YrCancerD	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2121	ALL	634486.2	4271672	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2122	ALL	634526.2	4271672	3.17E-08	1YrCancerD	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2123	ALL	634566.2	4271672	3.17E-08	1YrCancerD	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2124	ALL	634606.2	4271672	3.18E-08	1YrCancerD	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2125	ALL	634646.2	4271672	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2126	ALL	634686.2	4271672	3.25E-08	1YrCancerD	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2127	ALL	634726.2	4271672	3.32E-08	1YrCancerD	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2128	ALL	635206.2	4271672	7.26E-08	1YrCancerD	7.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2129	ALL	635246.2	4271672	8.28E-08	1YrCancerD	8.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2130	ALL	635286.2	4271672	9.45E-08	1YrCancerD	9.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2131	ALL	635326.2	4271672	1.08E-07	1YrCancerD	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2132	ALL	635366.2	4271672	1.24E-07	1YrCancerD	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2133	ALL	635406.2	4271672	1.45

2140	ALL	638126.2	4271672	4.64E-08	1YrCancerD	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2141	ALL	638166.2	4271672	3.50E-08	1YrCancerD	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2142	ALL	638206.2	4271672	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2143	ALL	638246.2	4271672	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2144	ALL	638286.2	4271672	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2145	ALL	638326.2	4271672	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2146	ALL	638366.2	4271672	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2147	ALL	634166.2	4271712	6.78E-08	1YrCancerD	6.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2148	ALL	634206.2	4271712	5.70E-08	1YrCancerD	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2149	ALL	634246.2	4271712	5.01E-08	1YrCancerD	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2150	ALL	634286.2	4271712	4.53E-08	1YrCancerD	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2151	ALL	634326.2	4271712	4.19E-08	1YrCancerD	4.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2152	ALL	634366.2	4271712	3.97E-08	1YrCancerD	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2153	ALL	634406.2	4271712	3.81E-08	1YrCancerD	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2154	ALL	634446.2	4271712	3.70E-08	1YrCancerD	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2155	ALL	634486.2	4271712	3.62E-08	1YrCancerD	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2156	ALL	634526.2	4271712	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2157	ALL	634566.2	4271712	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2158	ALL	634606.2	4271712	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2159	ALL	634646.2	4271712	3.55E-08	1YrCancerD	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2160	ALL	634686.2	4271712	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2161	ALL	634726.2	4271712	3.66E-08	1YrCancerD	3.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2162	ALL	634766.2	4271712	3.75E-08	1YrCancerD	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2163	ALL	635166.2	4271712	7.39E-08	1YrCancerD	7.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2164	ALL	635206.2	4271712	8.46E-08	1YrCancerD	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2165	ALL	635246.2	4271712	9.75E-08	1YrCancerD	9.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2166	ALL	635286.2	4271712	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2167	ALL	635326.2	4271712	1.30E-07	1YrCancerD	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2168	ALL	635366.2	4271712	1.54E-07	1YrCancerD	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2169	ALL	635406.2	4271712	1.87E-07	1YrCancerD	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2170	ALL	635446.2	4271712	2.37E-07	1YrCancerD	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2171	ALL	635486.2	4271712	3.18E-07	1YrCancerD	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2172	ALL	635526.2	4271712	4.64E-07	1YrCancerD	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2173	ALL	638046.2	4271712	1.69E-07	1YrCancerD	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2174	ALL	638086.2	4271712	7.09E-08	1YrCancerD	7.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2175	ALL	638126.2	4271712	4.62E-08	1YrCancerD	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2176	ALL	638166.2	4271712	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2177	ALL	638206.2	4271712	2.82E-08	1YrCancerD	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2178	ALL	638326.2	4271712	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2179	ALL	638366.2	4271712	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2180	ALL	634246.2	4271752	7.37E-08	1YrCancerD	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2181	ALL	634286.2	4271752	6.13E-08	1YrCancerD	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2182	ALL	634326.2	4271752	5.42E-08	1YrCancerD	5.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2183	ALL	634366.2	4271752	5.02E-08	1YrCancerD	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2184	ALL	634406.2	4271752	4.73E-08	1YrCancerD	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2185	ALL	634446.2	4271752	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2186	ALL	634486.2	4271752	4.33E-08	1YrCancerD	4.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2187	ALL	634526.2	4271752	4.21E-08	1YrCancerD	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2188	ALL	634566.2	4271752	4.13E-08	1YrCancerD	4.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2189	ALL	634606.2	4271752	4.08E-08	1YrCancerD	4.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2190	ALL	634646.2	4271752	4.07E-08	1YrCancerD	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2191	ALL	634686.2	4271752	4.09E-08	1YrCancerD	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2192	ALL	634726.2	4271752	4.14E-08	1YrCancerD	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2193	ALL	634766.2	4271752	4.23E-08	1YrCancerD	4.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2194	ALL	634806.2	4271752	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2195	ALL	635166.2	4271752	8.63E-08	1YrCancerD	8.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2196	ALL	635206.2	4271752	1.00E-07	1YrCancerD	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2197	ALL	635246.2	4271752	1.17E-07	1YrCancerD	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2198	ALL	635286.2	4271752	1.36E-07	1YrCancerD	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2199	ALL	635326.2	4271752	1.62E-07	1YrCancerD	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2200	ALL	635366.2	4271752	1.98E-07	1YrCancerD	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2201	ALL	635406.2	4271752	2.57E-07	1YrCancerD	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2202	ALL	635446.2	4271752	3.65E-07	1YrCancerD	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2203	ALL	638046.2	4271752	1.65E-07	1YrCancerD	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2204	ALL	638086.2	4271752	7.03E-08	1YrCancerD	7.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2205	ALL	638126.2	4271752	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2206	ALL	638166.2	4271752	3.48E-08	1YrCancerD	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2207	ALL	633726.2	4271792	1.81E-07	1YrCancerD	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2208	ALL	634406.2	4271792	7.12E-08	1YrCancerD	7.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2209	ALL	634446.2	4271792	6.43E-08	1YrCancerD	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2210	ALL	634486.2	4271792	5.93E-08	1YrCancerD	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2211	ALL	634526.2	4271792	5.56E-08	1YrCancerD	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2212	ALL	634566.2	4271792	5.31E-08	1YrCancerD	5.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2213	ALL	634606.2	4271792	5.13E-08	1YrCancerD	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2214	ALL	634646.2	4271792	5.02E-08	1YrCancerD	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2215	ALL	634686.2	4271792	4.95E-08	1YrCancerD	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2216	ALL	634726.2	4271792	4.94E-08	1YrCancerD	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2217	ALL	634766.2	4271792	4.98E-08	1YrCancerD	4.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2218	ALL	634806.2	4271792	5.08E-08	1YrCancerD	5.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2219	ALL	634846.2	4271792	5.23E-08	1YrCancerD	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2220	ALL	635046.2	4271792	7.11E-08	1YrCancerD	7.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2221	ALL	635086.2	4271792	7.85E-08	1YrCancerD	7.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2222	ALL	635206.2	4271792	1.20E-07	1YrCancerD	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2223	ALL	635246.2	4271792	1.42E-07	1YrCancerD	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2224	ALL	635286.2	4271792	1.69E-07	1YrCancerD	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2225	ALL	635326.2	4271792	2.07E-07	1YrCancerD	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2226	ALL	635366.2	4271792	2.68E-07	1YrCancerD	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2227	ALL	635406.2	4271792	3.90E-07	1YrCancerD	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2228	ALL	638046.2	4271792	1.61E-07	1YrCancerD	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2229	ALL	638086.2	4271792	6.98E-08	1YrCancerD	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2230	ALL	638126.2	4271792	4.58E-08	1YrCancerD	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2231	ALL	638166.2	4271792	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2232	ALL	638206.2	4271792	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2233	ALL	638246.2	4271792	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2234	ALL	638286.2	4271792	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2235	ALL	638326.2	4271792	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2236	ALL	638366.2	4271792	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2237	ALL	634686.2	4271832	6.98E-08	1YrCancerD	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2238	ALL	634726.2	4271832	6.68E-08	1YrCancerD	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2239	ALL	634766.2	4271832	6.51E-08	1YrCancerD	6.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2240	ALL	634806.2	4271832	6.45E-08	1YrCancerD	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2241	ALL	634846.2	4271832	6.50E-08	1YrCancerD	6.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2242	ALL	635006.2	4271832	7.74E-08	1YrCancerD	7.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2243	ALL	635046.2	4271832	8.38E-08	1YrCancerD	8.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2244	ALL	635126.2	4271832	1.06E-07	1YrCancerD	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2245	ALL	635166.2	4271832	1.24E-07	1YrCancerD	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2246	ALL	635206.2	4271832	1.48E-07

2247	ALL	635246.2	4271832	1.76E-07	1YrCancerD	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2248	ALL	635286.2	4271832	2.15E-07	1YrCancerD	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2249	ALL	635326.2	4271832	2.76E-07	1YrCancerD	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2250	ALL	635366.2	4271832	3.96E-07	1YrCancerD	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2251	ALL	638126.2	4271832	4.57E-08	1YrCancerD	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2252	ALL	638166.2	4271832	3.46E-08	1YrCancerD	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2253	ALL	638206.2	4271832	2.78E-08	1YrCancerD	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2254	ALL	638246.2	4271832	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2255	ALL	638286.2	4271832	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2256	ALL	638326.2	4271832	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2257	ALL	638366.2	4271832	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2258	ALL	635006.2	4271872	9.84E-08	1YrCancerD	9.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2259	ALL	635046.2	4271872	1.04E-07	1YrCancerD	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2260	ALL	635086.2	4271872	1.15E-07	1YrCancerD	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2261	ALL	635126.2	4271872	1.30E-07	1YrCancerD	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2262	ALL	635166.2	4271872	1.55E-07	1YrCancerD	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2263	ALL	635206.2	4271872	1.86E-07	1YrCancerD	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2264	ALL	635246.2	4271872	2.26E-07	1YrCancerD	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2265	ALL	635286.2	4271872	2.88E-07	1YrCancerD	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2266	ALL	635326.2	4271872	4.08E-07	1YrCancerD	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2267	ALL	638126.2	4271872	4.55E-08	1YrCancerD	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2268	ALL	638166.2	4271872	3.44E-08	1YrCancerD	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2269	ALL	638206.2	4271872	2.76E-08	1YrCancerD	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2270	ALL	638246.2	4271872	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2271	ALL	638286.2	4271872	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2272	ALL	638326.2	4271872	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2273	ALL	638366.2	4271872	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2274	ALL	635046.2	4271912	1.45E-07	1YrCancerD	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2275	ALL	635086.2	4271912	1.51E-07	1YrCancerD	1.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2276	ALL	635126.2	4271912	1.69E-07	1YrCancerD	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2277	ALL	635166.2	4271912	2.03E-07	1YrCancerD	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2278	ALL	635206.2	4271912	2.46E-07	1YrCancerD	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2279	ALL	635246.2	4271912	3.07E-07	1YrCancerD	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2280	ALL	635286.2	4271912	4.22E-07	1YrCancerD	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2281	ALL	638126.2	4271912	4.53E-08	1YrCancerD	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2282	ALL	638166.2	4271912	3.42E-08	1YrCancerD	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2283	ALL	638206.2	4271912	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2284	ALL	638246.2	4271912	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2285	ALL	638286.2	4271912	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2286	ALL	638326.2	4271912	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2287	ALL	638366.2	4271912	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2288	ALL	635126.2	4271952	2.36E-07	1YrCancerD	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2289	ALL	635166.2	4271952	2.81E-07	1YrCancerD	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2290	ALL	635206.2	4271952	3.41E-07	1YrCancerD	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2291	ALL	635246.2	4271952	4.53E-07	1YrCancerD	4.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2292	ALL	638206.2	4271952	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2293	ALL	638246.2	4271952	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2294	ALL	638286.2	4271952	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2295	ALL	638326.2	4271952	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2296	ALL	638366.2	4271952	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2297	ALL	635166.2	4271992	4.27E-07	1YrCancerD	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2298	ALL	635206.2	4271992	5.16E-07	1YrCancerD	5.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2299	ALL	638046.2	4271992	1.45E-07	1YrCancerD	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2300	ALL	638086.2	4271992	6.74E-08	1YrCancerD	6.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2301	ALL	638126.2	4271992	4.47E-08	1YrCancerD	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2302	ALL	638166.2	4271992	3.35E-08	1YrCancerD	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2303	ALL	638206.2	4271992	2.67E-08	1YrCancerD	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2304	ALL	638246.2	4271992	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2305	ALL	638286.2	4271992	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2306	ALL	638326.2	4271992	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2307	ALL	638366.2	4271992	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2308	ALL	638046.2	4272032	1.42E-07	1YrCancerD	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2309	ALL	638086.2	4272032	6.69E-08	1YrCancerD	6.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2310	ALL	638126.2	4272032	4.44E-08	1YrCancerD	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2311	ALL	638166.2	4272032	3.31E-08	1YrCancerD	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2312	ALL	638206.2	4272032	2.62E-08	1YrCancerD	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2313	ALL	638246.2	4272032	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2314	ALL	638286.2	4272032	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2315	ALL	638326.2	4272032	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2316	ALL	638366.2	4272032	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2317	ALL	638046.2	4272072	1.40E-07	1YrCancerD	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2318	ALL	638086.2	4272072	6.64E-08	1YrCancerD	6.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2319	ALL	638126.2	4272072	4.39E-08	1YrCancerD	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2320	ALL	638166.2	4272072	3.25E-08	1YrCancerD	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2321	ALL	638206.2	4272072	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2322	ALL	638246.2	4272072	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2323	ALL	638286.2	4272072	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2324	ALL	638326.2	4272072	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2325	ALL	638366.2	4272072	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2326	ALL	633966.2	4272112	1.82E-07	1YrCancerD	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2327	ALL	638046.2	4272112	1.38E-07	1YrCancerD	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2328	ALL	638086.2	4272112	6.58E-08	1YrCancerD	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2329	ALL	638126.2	4272112	4.32E-08	1YrCancerD	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2330	ALL	638286.2	4272112	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2331	ALL	638326.2	4272112	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2332	ALL	638366.2	4272112	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2333	ALL	638286.2	4272152	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2334	ALL	638326.2	4272152	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2335	ALL	638366.2	4272152	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2336	ALL	638286.2	4272192	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2337	ALL	638326.2	4272192	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2338	ALL	638366.2	4272192	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2339	ALL	634966.2	4272232	3.38E-07	1YrCancerD	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2340	ALL	638286.2	4272232	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2341	ALL	638326.2	4272232	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2342	ALL	638366.2	4272232	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2343	ALL	634966.2	4272272	3.48E-07	1YrCancerD	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2344	ALL	638286.2	4272272	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2345	ALL	638326.2	4272272	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2346	ALL	638366.2	4272272	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2347	ALL	634926.2	4272312	2.27E-07	1YrCancerD	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2348	ALL	634966.2	4272312	3.51E-07	1YrCancerD	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2349	ALL	638286.2	4272312	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2350	ALL	638326.2	4272312	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2351	ALL	638366.2	4272312	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2352	ALL	638126.2	4272392	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2353	ALL	638166.2	4272392	2.29E-08

2354	ALL	638206.2	4272392	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2355	ALL	638246.2	4272392	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2356	ALL	638286.2	4272392	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2357	ALL	638326.2	4272392	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2358	ALL	638366.2	4272392	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2359	ALL	638126.2	4272432	2.68E-08	1YrCancerD	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2360	ALL	638166.2	4272432	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2361	ALL	638206.2	4272432	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2362	ALL	638246.2	4272432	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2363	ALL	638286.2	4272432	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2364	ALL	638326.2	4272432	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2365	ALL	638366.2	4272432	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2366	ALL	638126.2	4272472	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2367	ALL	638166.2	4272472	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2368	ALL	638206.2	4272472	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2369	ALL	638246.2	4272472	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2370	ALL	638286.2	4272472	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2371	ALL	638326.2	4272472	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2372	ALL	638366.2	4272472	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2373	ALL	638126.2	4272512	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2374	ALL	638166.2	4272512	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2375	ALL	638206.2	4272512	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2376	ALL	638246.2	4272512	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2377	ALL	638286.2	4272512	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2378	ALL	638326.2	4272512	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2379	ALL	638366.2	4272512	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2380	ALL	638126.2	4272552	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2381	ALL	638166.2	4272552	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2382	ALL	638206.2	4272552	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2383	ALL	638246.2	4272552	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2384	ALL	638326.2	4272552	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2385	ALL	638366.2	4272552	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2386	ALL	638046.2	4272592	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2387	ALL	638086.2	4272592	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2388	ALL	638126.2	4272592	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2389	ALL	638166.2	4272592	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2390	ALL	638206.2	4272592	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2391	ALL	638246.2	4272592	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2392	ALL	638326.2	4272592	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2393	ALL	638366.2	4272592	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2394	ALL	638046.2	4272632	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2395	ALL	638086.2	4272632	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2396	ALL	638126.2	4272632	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2397	ALL	638166.2	4272632	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2398	ALL	638206.2	4272632	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2399	ALL	638246.2	4272632	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2400	ALL	638326.2	4272632	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2401	ALL	638366.2	4272632	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2402	ALL	638046.2	4272672	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2403	ALL	638086.2	4272672	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2404	ALL	638126.2	4272672	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2405	ALL	638166.2	4272672	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2406	ALL	638206.2	4272672	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2407	ALL	638246.2	4272672	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2408	ALL	638326.2	4272672	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2409	ALL	638366.2	4272672	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2410	ALL	638046.2	4272712	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2411	ALL	638086.2	4272712	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2412	ALL	638126.2	4272712	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2413	ALL	638166.2	4272712	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2414	ALL	638206.2	4272712	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2415	ALL	638246.2	4272712	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2416	ALL	638326.2	4272712	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2417	ALL	638366.2	4272712	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2418	ALL	638046.2	4272752	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2419	ALL	638086.2	4272752	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2420	ALL	638126.2	4272752	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2421	ALL	638166.2	4272752	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2422	ALL	638206.2	4272752	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2423	ALL	638246.2	4272752	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2424	ALL	638326.2	4272752	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2425	ALL	638366.2	4272752	9.90E-09	1YrCancerD	9.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2426	ALL	638206.2	4272792	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2427	ALL	638246.2	4272792	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2428	ALL	638326.2	4272792	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2429	ALL	638366.2	4272792	9.68E-09	1YrCancerD	9.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2430	ALL	638206.2	4272832	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2431	ALL	638246.2	4272832	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2432	ALL	638326.2	4272832	9.97E-09	1YrCancerD	9.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2433	ALL	638366.2	4272832	9.45E-09	1YrCancerD	9.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2434	ALL	638246.2	4272872	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2435	ALL	638326.2	4272872	9.69E-09	1YrCancerD	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2436	ALL	638366.2	4272872	9.22E-09	1YrCancerD	9.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2437	ALL	638246.2	4272912	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2438	ALL	638326.2	4272912	9.42E-09	1YrCancerD	9.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2439	ALL	638366.2	4272912	8.99E-09	1YrCancerD	8.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2440	ALL	638246.2	4272952	9.97E-09	1YrCancerD	9.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2441	ALL	638326.2	4272952	9.17E-09	1YrCancerD	9.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2442	ALL	638366.2	4272952	8.78E-09	1YrCancerD	8.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2443	ALL	638126.2	4272992	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2444	ALL	638166.2	4272992	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2445	ALL	638206.2	4272992	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2446	ALL	638246.2	4272992	9.67E-09	1YrCancerD	9.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2447	ALL	638326.2	4272992	8.93E-09	1YrCancerD	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2448	ALL	638366.2	4272992	8.57E-09	1YrCancerD	8.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2449	ALL	638046.2	4273032	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2450	ALL	638086.2	4273032	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2451	ALL	638126.2	4273032	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2452	ALL	638166.2	4273032	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2453	ALL	638206.2	4273032	9.75E-09	1YrCancerD	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2454	ALL	638246.2	4273032	9.39E-09	1YrCancerD	9.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2455	ALL	638326.2	4273032	8.71E-09	1YrCancerD	8.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2456	ALL	638366.2	4273032	8.38E-09	1YrCancerD	8.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2457	ALL	638046.2	4273072	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2458	ALL	638086.2	4273072	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2459	ALL	638126.2	4273072	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2460	ALL	638166.2	4273072	9.80E-09

2461	ALL	638206.2	4273072	9.47E-09	1YrCancerD	9.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2462	ALL	638246.2	4273072	9.13E-09	1YrCancerD	9.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2463	ALL	638326.2	4273072	8.51E-09	1YrCancerD	8.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2464	ALL	638366.2	4273072	8.20E-09	1YrCancerD	8.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2465	ALL	635886.2	4273112	1.58E-07	1YrCancerD	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2466	ALL	635926.2	4273112	1.30E-07	1YrCancerD	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2467	ALL	635966.2	4273112	1.19E-07	1YrCancerD	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2468	ALL	636006.2	4273112	1.11E-07	1YrCancerD	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2469	ALL	636046.2	4273112	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2470	ALL	636086.2	4273112	9.68E-08	1YrCancerD	9.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2471	ALL	636126.2	4273112	9.11E-08	1YrCancerD	9.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2472	ALL	636166.2	4273112	8.60E-08	1YrCancerD	8.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2473	ALL	636206.2	4273112	8.14E-08	1YrCancerD	8.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2474	ALL	636246.2	4273112	7.74E-08	1YrCancerD	7.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2475	ALL	636286.2	4273112	7.39E-08	1YrCancerD	7.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2476	ALL	636326.2	4273112	7.11E-08	1YrCancerD	7.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2477	ALL	637366.2	4273112	1.45E-07	1YrCancerD	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2478	ALL	638046.2	4273112	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2479	ALL	638086.2	4273112	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2480	ALL	638126.2	4273112	9.88E-09	1YrCancerD	9.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2481	ALL	638166.2	4273112	9.54E-09	1YrCancerD	9.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2482	ALL	638206.2	4273112	9.22E-09	1YrCancerD	9.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2483	ALL	638246.2	4273112	8.90E-09	1YrCancerD	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2484	ALL	638326.2	4273112	8.32E-09	1YrCancerD	8.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2485	ALL	638366.2	4273112	8.03E-09	1YrCancerD	8.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2486	ALL	635806.2	4273152	1.13E-07	1YrCancerD	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2487	ALL	635846.2	4273152	9.24E-08	1YrCancerD	9.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2488	ALL	635886.2	4273152	7.90E-08	1YrCancerD	7.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2489	ALL	635926.2	4273152	7.16E-08	1YrCancerD	7.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2490	ALL	635966.2	4273152	6.77E-08	1YrCancerD	6.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2491	ALL	636006.2	4273152	6.48E-08	1YrCancerD	6.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2492	ALL	636046.2	4273152	6.22E-08	1YrCancerD	6.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2493	ALL	636086.2	4273152	5.98E-08	1YrCancerD	5.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2494	ALL	636126.2	4273152	5.75E-08	1YrCancerD	5.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2495	ALL	636166.2	4273152	5.55E-08	1YrCancerD	5.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2496	ALL	636206.2	4273152	5.35E-08	1YrCancerD	5.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2497	ALL	636246.2	4273152	5.18E-08	1YrCancerD	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2498	ALL	636286.2	4273152	5.01E-08	1YrCancerD	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2499	ALL	636326.2	4273152	4.87E-08	1YrCancerD	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2500	ALL	635726.2	4273192	9.51E-08	1YrCancerD	9.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2501	ALL	635766.2	4273192	8.01E-08	1YrCancerD	8.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2502	ALL	635806.2	4273192	7.01E-08	1YrCancerD	7.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2503	ALL	635846.2	4273192	6.26E-08	1YrCancerD	6.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2504	ALL	635886.2	4273192	5.71E-08	1YrCancerD	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2505	ALL	635926.2	4273192	5.32E-08	1YrCancerD	5.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2506	ALL	635966.2	4273192	5.07E-08	1YrCancerD	5.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2507	ALL	636006.2	4273192	4.89E-08	1YrCancerD	4.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2508	ALL	636046.2	4273192	4.72E-08	1YrCancerD	4.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2509	ALL	636086.2	4273192	4.57E-08	1YrCancerD	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2510	ALL	636126.2	4273192	4.43E-08	1YrCancerD	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2511	ALL	636166.2	4273192	4.30E-08	1YrCancerD	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2512	ALL	636206.2	4273192	4.18E-08	1YrCancerD	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2513	ALL	636246.2	4273192	4.06E-08	1YrCancerD	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2514	ALL	636286.2	4273192	3.96E-08	1YrCancerD	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2515	ALL	636326.2	4273192	3.86E-08	1YrCancerD	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2516	ALL	635606.2	4273232	1.31E-07	1YrCancerD	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2517	ALL	635646.2	4273232	9.52E-08	1YrCancerD	9.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2518	ALL	635686.2	4273232	7.77E-08	1YrCancerD	7.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2519	ALL	635726.2	4273232	6.70E-08	1YrCancerD	6.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2520	ALL	635766.2	4273232	5.96E-08	1YrCancerD	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2521	ALL	635806.2	4273232	5.41E-08	1YrCancerD	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2522	ALL	635846.2	4273232	4.99E-08	1YrCancerD	4.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2523	ALL	635886.2	4273232	4.66E-08	1YrCancerD	4.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2524	ALL	635926.2	4273232	4.40E-08	1YrCancerD	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2525	ALL	635966.2	4273232	4.21E-08	1YrCancerD	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2526	ALL	636006.2	4273232	4.07E-08	1YrCancerD	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2527	ALL	636046.2	4273232	3.94E-08	1YrCancerD	3.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2528	ALL	636086.2	4273232	3.83E-08	1YrCancerD	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2529	ALL	636126.2	4273232	3.72E-08	1YrCancerD	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2530	ALL	636166.2	4273232	3.62E-08	1YrCancerD	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2531	ALL	636206.2	4273232	3.53E-08	1YrCancerD	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2532	ALL	636246.2	4273232	3.44E-08	1YrCancerD	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2533	ALL	636286.2	4273232	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2534	ALL	636326.2	4273232	3.28E-08	1YrCancerD	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2535	ALL	636366.2	4273232	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2536	ALL	635606.2	4273272	9.99E-08	1YrCancerD	9.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2537	ALL	635646.2	4273272	7.35E-08	1YrCancerD	7.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2538	ALL	635686.2	4273272	6.16E-08	1YrCancerD	6.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2539	ALL	635726.2	4273272	5.44E-08	1YrCancerD	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2540	ALL	635766.2	4273272	4.94E-08	1YrCancerD	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2541	ALL	635806.2	4273272	4.56E-08	1YrCancerD	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2542	ALL	635846.2	4273272	4.26E-08	1YrCancerD	4.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2543	ALL	635886.2	4273272	4.03E-08	1YrCancerD	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2544	ALL	635926.2	4273272	3.84E-08	1YrCancerD	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2545	ALL	635966.2	4273272	3.68E-08	1YrCancerD	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2546	ALL	636006.2	4273272	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2547	ALL	636046.2	4273272	3.45E-08	1YrCancerD	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2548	ALL	636086.2	4273272	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2549	ALL	636126.2	4273272	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2550	ALL	636166.2	4273272	3.19E-08	1YrCancerD	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2551	ALL	636206.2	4273272	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2552	ALL	636246.2	4273272	3.03E-08	1YrCancerD	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2553	ALL	636286.2	4273272	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2554	ALL	636326.2	4273272	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2555	ALL	636366.2	4273272	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2556	ALL	636406.2	4273272	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2557	ALL	635646.2	4273312	6.14E-08	1YrCancerD	6.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2558	ALL	635686.2	4273312	5.24E-08	1YrCancerD	5.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2559	ALL	635726.2	4273312	4.70E-08	1YrCancerD	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2560	ALL	635766.2	4273312	4.31E-08	1YrCancerD	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2561	ALL	635806.2	4273312	4.02E-08	1YrCancerD	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2562	ALL	635846.2	4273312	3.79E-08	1YrCancerD	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2563	ALL	635886.2	4273312	3.60E-08	1YrCancerD	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2564	ALL	635926.2	4273312	3.45E-08	1YrCancerD	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2565	ALL	635966.2	4273312	3.32E-08	1YrCancerD	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2566	ALL	636006.2	4273312	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2567	ALL	636046.2	4273312	3.12E-08

2568	ALL	636086.2	4273312	3.03E-08	1YrCancerD	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2569	ALL	636126.2	4273312	2.95E-08	1YrCancerD	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2570	ALL	636166.2	4273312	2.88E-08	1YrCancerD	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2571	ALL	636206.2	4273312	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2572	ALL	636246.2	4273312	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2573	ALL	636286.2	4273312	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2574	ALL	636326.2	4273312	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2575	ALL	636366.2	4273312	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2576	ALL	636406.2	4273312	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2577	ALL	636446.2	4273312	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2578	ALL	636486.2	4273312	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2579	ALL	638206.2	4273312	8.21E-09	1YrCancerD	8.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2580	ALL	638246.2	4273312	7.95E-09	1YrCancerD	7.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2581	ALL	638286.2	4273312	7.72E-09	1YrCancerD	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2582	ALL	638326.2	4273312	7.49E-09	1YrCancerD	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2583	ALL	638366.2	4273312	7.28E-09	1YrCancerD	7.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2584	ALL	635686.2	4273352	4.62E-08	1YrCancerD	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2585	ALL	635726.2	4273352	4.18E-08	1YrCancerD	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2586	ALL	635766.2	4273352	3.87E-08	1YrCancerD	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2587	ALL	635806.2	4273352	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2588	ALL	635846.2	4273352	3.44E-08	1YrCancerD	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2589	ALL	635886.2	4273352	3.29E-08	1YrCancerD	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2590	ALL	635926.2	4273352	3.16E-08	1YrCancerD	3.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2591	ALL	635966.2	4273352	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2592	ALL	636006.2	4273352	2.95E-08	1YrCancerD	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2593	ALL	636046.2	4273352	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2594	ALL	636086.2	4273352	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2595	ALL	636126.2	4273352	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2596	ALL	636166.2	4273352	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2597	ALL	636206.2	4273352	2.59E-08	1YrCancerD	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2598	ALL	636246.2	4273352	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2599	ALL	636286.2	4273352	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2600	ALL	636326.2	4273352	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2601	ALL	636366.2	4273352	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2602	ALL	636406.2	4273352	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2603	ALL	636446.2	4273352	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2604	ALL	636486.2	4273352	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2605	ALL	636526.2	4273352	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2606	ALL	636566.2	4273352	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2607	ALL	636606.2	4273352	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2608	ALL	638206.2	4273352	8.06E-09	1YrCancerD	8.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2609	ALL	638246.2	4273352	7.81E-09	1YrCancerD	7.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2610	ALL	638286.2	4273352	7.58E-09	1YrCancerD	7.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2611	ALL	638326.2	4273352	7.36E-09	1YrCancerD	7.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2612	ALL	638366.2	4273352	7.15E-09	1YrCancerD	7.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2613	ALL	635766.2	4273392	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2614	ALL	635806.2	4273392	3.34E-08	1YrCancerD	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2615	ALL	635846.2	4273392	3.18E-08	1YrCancerD	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2616	ALL	635886.2	4273392	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2617	ALL	635926.2	4273392	2.93E-08	1YrCancerD	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2618	ALL	635966.2	4273392	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2619	ALL	636006.2	4273392	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2620	ALL	636046.2	4273392	2.67E-08	1YrCancerD	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2621	ALL	636086.2	4273392	2.60E-08	1YrCancerD	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2622	ALL	636126.2	4273392	2.54E-08	1YrCancerD	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2623	ALL	636166.2	4273392	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2624	ALL	636206.2	4273392	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2625	ALL	636246.2	4273392	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2626	ALL	636286.2	4273392	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2627	ALL	636326.2	4273392	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2628	ALL	636366.2	4273392	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2629	ALL	636406.2	4273392	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2630	ALL	636446.2	4273392	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2631	ALL	636486.2	4273392	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2632	ALL	636526.2	4273392	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2633	ALL	636566.2	4273392	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2634	ALL	636606.2	4273392	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2635	ALL	636646.2	4273392	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2636	ALL	635806.2	4273432	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2637	ALL	635846.2	4273432	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2638	ALL	635886.2	4273432	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2639	ALL	635926.2	4273432	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2640	ALL	635966.2	4273432	2.65E-08	1YrCancerD	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2641	ALL	636006.2	4273432	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2642	ALL	636046.2	4273432	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2643	ALL	636086.2	4273432	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2644	ALL	636126.2	4273432	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2645	ALL	636166.2	4273432	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2646	ALL	636206.2	4273432	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2647	ALL	636246.2	4273432	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2648	ALL	636286.2	4273432	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2649	ALL	636326.2	4273432	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2650	ALL	636366.2	4273432	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2651	ALL	636406.2	4273432	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2652	ALL	636446.2	4273432	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2653	ALL	636486.2	4273432	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2654	ALL	636526.2	4273432	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2655	ALL	636566.2	4273432	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2656	ALL	636606.2	4273432	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2657	ALL	636646.2	4273432	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2658	ALL	636686.2	4273432	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2659	ALL	638006.2	4273432	9.27E-09	1YrCancerD	9.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2660	ALL	638046.2	4273432	8.85E-09	1YrCancerD	8.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2661	ALL	638086.2	4273432	8.50E-09	1YrCancerD	8.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2662	ALL	638126.2	4273432	8.21E-09	1YrCancerD	8.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2663	ALL	638166.2	4273432	7.99E-09	1YrCancerD	7.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2664	ALL	638206.2	4273432	7.76E-09	1YrCancerD	7.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2665	ALL	638246.2	4273432	7.53E-09	1YrCancerD	7.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2666	ALL	638286.2	4273432	7.31E-09	1YrCancerD	7.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2667	ALL	638326.2	4273432	7.09E-09	1YrCancerD	7.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2668	ALL	638366.2	4273432	6.91E-09	1YrCancerD	6.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2669	ALL	635846.2	4273472	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2670	ALL	635886.2	4273472	2.68E-08	1YrCancerD	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2671	ALL	635926.2	4273472	2.59E-08	1YrCancerD	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2672	ALL	635966.2	4273472	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2673	ALL	636006.2	4273472	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2674	ALL	636046.2	4273472	2.37E-08

2675	ALL	636086.2	4273472	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2676	ALL	636126.2	4273472	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2677	ALL	636166.2	4273472	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2678	ALL	636206.2	4273472	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2679	ALL	636246.2	4273472	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2680	ALL	636286.2	4273472	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2681	ALL	636326.2	4273472	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2682	ALL	636366.2	4273472	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2683	ALL	636406.2	4273472	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2684	ALL	636446.2	4273472	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2685	ALL	636606.2	4273472	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2686	ALL	636646.2	4273472	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2687	ALL	636686.2	4273472	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2688	ALL	636726.2	4273472	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2689	ALL	637606.2	4273472	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2690	ALL	637646.2	4273472	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2691	ALL	637686.2	4273472	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2692	ALL	637726.2	4273472	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2693	ALL	637766.2	4273472	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2694	ALL	638006.2	4273472	9.02E-09	1YrCancerD	9.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2695	ALL	638046.2	4273472	8.64E-09	1YrCancerD	8.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2696	ALL	638086.2	4273472	8.31E-09	1YrCancerD	8.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2697	ALL	638126.2	4273472	8.04E-09	1YrCancerD	8.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2698	ALL	638166.2	4273472	7.85E-09	1YrCancerD	7.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2699	ALL	638206.2	4273472	7.62E-09	1YrCancerD	7.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2700	ALL	638246.2	4273472	7.39E-09	1YrCancerD	7.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2701	ALL	638286.2	4273472	7.17E-09	1YrCancerD	7.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2702	ALL	638326.2	4273472	6.97E-09	1YrCancerD	6.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2703	ALL	638366.2	4273472	6.79E-09	1YrCancerD	6.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2704	ALL	635926.2	4273512	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2705	ALL	635966.2	4273512	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2706	ALL	636006.2	4273512	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2707	ALL	636046.2	4273512	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2708	ALL	636086.2	4273512	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2709	ALL	636126.2	4273512	2.15E-08	1YrCancerD	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2710	ALL	636166.2	4273512	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2711	ALL	636206.2	4273512	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2712	ALL	636246.2	4273512	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2713	ALL	636286.2	4273512	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2714	ALL	636326.2	4273512	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2715	ALL	636366.2	4273512	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2716	ALL	636646.2	4273512	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2717	ALL	636686.2	4273512	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2718	ALL	636726.2	4273512	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2719	ALL	637606.2	4273512	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2720	ALL	637646.2	4273512	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2721	ALL	637686.2	4273512	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2722	ALL	637726.2	4273512	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2723	ALL	637766.2	4273512	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2724	ALL	638006.2	4273512	8.79E-09	1YrCancerD	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2725	ALL	638046.2	4273512	8.42E-09	1YrCancerD	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2726	ALL	638086.2	4273512	8.13E-09	1YrCancerD	8.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2727	ALL	638126.2	4273512	7.88E-09	1YrCancerD	7.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2728	ALL	638166.2	4273512	7.70E-09	1YrCancerD	7.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2729	ALL	638206.2	4273512	7.48E-09	1YrCancerD	7.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2730	ALL	638246.2	4273512	7.26E-09	1YrCancerD	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2731	ALL	638286.2	4273512	7.05E-09	1YrCancerD	7.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2732	ALL	638326.2	4273512	6.85E-09	1YrCancerD	6.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2733	ALL	638366.2	4273512	6.69E-09	1YrCancerD	6.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2734	ALL	636006.2	4273552	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2735	ALL	636046.2	4273552	2.15E-08	1YrCancerD	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2736	ALL	636086.2	4273552	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2737	ALL	636126.2	4273552	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2738	ALL	636166.2	4273552	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2739	ALL	636206.2	4273552	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2740	ALL	636246.2	4273552	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2741	ALL	636286.2	4273552	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2742	ALL	636326.2	4273552	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2743	ALL	636606.2	4273552	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2744	ALL	636646.2	4273552	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2745	ALL	636686.2	4273552	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2746	ALL	637606.2	4273552	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2747	ALL	637646.2	4273552	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2748	ALL	637686.2	4273552	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2749	ALL	637726.2	4273552	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2750	ALL	637766.2	4273552	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2751	ALL	637806.2	4273552	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2752	ALL	637846.2	4273552	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2753	ALL	637886.2	4273552	9.71E-09	1YrCancerD	9.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2754	ALL	638006.2	4273552	8.55E-09	1YrCancerD	8.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2755	ALL	638046.2	4273552	8.22E-09	1YrCancerD	8.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2756	ALL	638086.2	4273552	7.95E-09	1YrCancerD	7.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2757	ALL	638126.2	4273552	7.71E-09	1YrCancerD	7.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2758	ALL	638166.2	4273552	7.55E-09	1YrCancerD	7.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2759	ALL	638206.2	4273552	7.34E-09	1YrCancerD	7.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2760	ALL	638246.2	4273552	7.13E-09	1YrCancerD	7.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2761	ALL	638286.2	4273552	6.92E-09	1YrCancerD	6.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2762	ALL	638326.2	4273552	6.75E-09	1YrCancerD	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2763	ALL	638366.2	4273552	6.59E-09	1YrCancerD	6.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2764	ALL	636086.2	4273592	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2765	ALL	636126.2	4273592	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2766	ALL	636166.2	4273592	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2767	ALL	636206.2	4273592	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2768	ALL	636246.2	4273592	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2769	ALL	636286.2	4273592	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2770	ALL	636606.2	4273592	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2771	ALL	636646.2	4273592	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2772	ALL	636126.2	4273632	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2773	ALL	636166.2	4273632	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2774	ALL	636206.2	4273632	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2775	ALL	636246.2	4273632	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2776	ALL	636286.2	4273632	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2777	ALL	637060.5	4271428	1.66E-07	1YrCancerD	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2778	ALL	637144.2	4271358	2.57E-07	1YrCancerD	2.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2779	ALL	637162.3	4271343	2.33E-07	1YrCancerD	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2780	ALL	637135.1	4271307	1.72E-07	1YrCancerD	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2781	ALL	637139.6	4271298	2.43E-07

2782	ALL	637089.7	4271237	2.27E-07	1YrCancerD	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2783	ALL	637081.2	4271244	2.33E-07	1YrCancerD	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2784	ALL	637067.6	4271230	2.09E-07	1YrCancerD	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2785	ALL	637059.8	4271239	2.47E-07	1YrCancerD	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2786	ALL	637073.4	4271250	2.45E-07	1YrCancerD	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2787	ALL	637066.3	4271259	1.72E-07	1YrCancerD	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2788	ALL	637118.9	4271320	2.05E-07	1YrCancerD	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2789	ALL	637127.9	4271314	2.81E-07	1YrCancerD	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2790	ALL	637148.7	4271344	3.36E-07	1YrCancerD	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2791	ALL	637056.6	4271416	1.75E-07	1YrCancerD	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2792	ALL	637022.2	4271432	1.86E-07	1YrCancerD	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2793	ALL	636978.7	4271446	1.46E-07	1YrCancerD	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2794	ALL	636956	4271450	1.43E-07	1YrCancerD	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2795	ALL	636917.7	4271450	1.54E-07	1YrCancerD	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2796	ALL	636833.3	4271442	1.54E-07	1YrCancerD	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2797	ALL	636745.1	4271434	1.34E-07	1YrCancerD	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2798	ALL	636680.8	4271428	1.00E-07	1YrCancerD	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2799	ALL	636581.4	4271418	1.48E-07	1YrCancerD	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2800	ALL	636489.3	4271410	1.46E-07	1YrCancerD	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2801	ALL	636414.7	4271412	1.41E-07	1YrCancerD	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2802	ALL	636354.7	4271415	1.47E-07	1YrCancerD	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2803	ALL	636300.6	4271426	1.45E-07	1YrCancerD	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2804	ALL	636223.1	4271438	1.46E-07	1YrCancerD	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2805	ALL	636094.4	4271457	1.73E-07	1YrCancerD	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2806	ALL	636012.5	4271475	1.73E-07	1YrCancerD	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2807	ALL	635929.3	4271499	1.32E-07	1YrCancerD	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2808	ALL	635832.8	4271537	1.89E-07	1YrCancerD	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2809	ALL	635781.6	4271559	1.67E-07	1YrCancerD	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2810	ALL	635723.1	4271595	2.55E-07	1YrCancerD	2.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2811	ALL	635651.4	4271654	3.38E-07	1YrCancerD	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2812	ALL	635569.5	4271717	1.02E-06	1YrCancerD	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2813	ALL	635497.9	4271763	9.66E-07	1YrCancerD	9.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2814	ALL	635436.4	4271813	9.44E-07	1YrCancerD	9.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2815	ALL	635348.7	4271899	9.31E-07	1YrCancerD	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2816	ALL	635268.2	4271978	9.39E-07	1YrCancerD	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2817	ALL	635193.6	4272049	1.25E-06	1YrCancerD	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2818	ALL	635154.1	4272082	1.66E-06	1YrCancerD	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2819	ALL	635102.9	4272027	4.41E-07	1YrCancerD	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2820	ALL	635079.5	4272063	4.57E-07	1YrCancerD	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2821	ALL	635082.5	4272094	7.07E-07	1YrCancerD	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2822	ALL	635098.5	4272123	1.54E-06	1YrCancerD	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2823	ALL	634974.2	4272202	3.47E-07	1YrCancerD	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2824	ALL	634974.2	4272285	3.91E-07	1YrCancerD	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2825	ALL	634930.3	4272331	2.51E-07	1YrCancerD	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2826	ALL	634921.6	4272321	2.40E-07	1YrCancerD	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2827	ALL	634928.9	4272305	2.18E-07	1YrCancerD	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2828	ALL	634934.7	4272290	2.13E-07	1YrCancerD	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2829	ALL	634931.8	4272284	1.98E-07	1YrCancerD	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2830	ALL	634917.2	4272306	1.91E-07	1YrCancerD	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2831	ALL	634904	4272329	2.36E-07	1YrCancerD	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2832	ALL	634871.5	4272349	1.78E-07	1YrCancerD	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2833	ALL	634810	4272378	1.48E-07	1YrCancerD	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2834	ALL	634769.1	4272390	1.34E-07	1YrCancerD	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2835	ALL	634694.5	4272382	1.17E-07	1YrCancerD	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2836	ALL	634631.6	4272373	1.21E-07	1YrCancerD	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2837	ALL	634552.6	4272366	1.14E-07	1YrCancerD	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2838	ALL	634441.4	4272325	1.16E-07	1YrCancerD	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2839	ALL	634296.6	4272265	8.90E-08	1YrCancerD	8.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2840	ALL	634129.9	4272188	1.11E-07	1YrCancerD	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2841	ALL	634042.1	4272147	1.13E-07	1YrCancerD	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2842	ALL	633982.4	4272112	1.41E-07	1YrCancerD	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2843	ALL	633962.5	4272091	1.59E-07	1YrCancerD	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2844	ALL	633951.3	4272065	2.02E-07	1YrCancerD	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2845	ALL	633941.4	4272028	1.69E-07	1YrCancerD	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2846	ALL	633933.9	4272002	1.63E-07	1YrCancerD	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2847	ALL	633921.5	4271976	1.23E-07	1YrCancerD	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2848	ALL	633901.6	4271956	1.37E-07	1YrCancerD	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2849	ALL	633868	4271941	1.09E-07	1YrCancerD	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2850	ALL	633827	4271932	1.48E-07	1YrCancerD	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2851	ALL	633808.3	4271923	1.85E-07	1YrCancerD	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2852	ALL	633788.4	4271908	1.64E-07	1YrCancerD	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2853	ALL	633774.8	4271891	1.45E-07	1YrCancerD	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2854	ALL	633753.6	4271828	1.45E-07	1YrCancerD	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2855	ALL	633710.1	4271691	2.15E-07	1YrCancerD	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2856	ALL	633693.3	4271700	1.65E-07	1YrCancerD	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2857	ALL	633765.1	4271899	1.70E-07	1YrCancerD	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2858	ALL	633786.5	4271929	1.54E-07	1YrCancerD	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2859	ALL	633803.3	4271938	1.49E-07	1YrCancerD	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2860	ALL	633831.6	4271943	1.23E-07	1YrCancerD	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2861	ALL	633860.6	4271947	1.27E-07	1YrCancerD	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2862	ALL	633881.9	4271953	9.90E-08	1YrCancerD	9.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2863	ALL	633908.7	4271973	1.14E-07	1YrCancerD	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2864	ALL	633921.7	4271994	1.37E-07	1YrCancerD	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2865	ALL	633931.6	4272031	1.66E-07	1YrCancerD	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2866	ALL	633937.7	4272053	1.74E-07	1YrCancerD	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2867	ALL	633918.6	4272053	1.15E-07	1YrCancerD	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2868	ALL	633911.7	4272097	6.87E-08	1YrCancerD	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2869	ALL	633956	4272101	1.55E-07	1YrCancerD	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2870	ALL	634007.9	4272137	1.37E-07	1YrCancerD	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2871	ALL	634056.8	4272161	9.93E-08	1YrCancerD	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2872	ALL	634114.1	4272190	1.21E-07	1YrCancerD	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2873	ALL	634214.9	4272236	1.19E-07	1YrCancerD	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2874	ALL	634313.7	4272280	1.20E-07	1YrCancerD	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2875	ALL	634496.1	4272359	1.79E-07	1YrCancerD	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2876	ALL	634555.3	4272375	1.31E-07	1YrCancerD	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2877	ALL	634638	4272385	1.62E-07	1YrCancerD	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2878	ALL	634746.7	4272396	1.33E-07	1YrCancerD	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2879	ALL	634773.2	4272395	1.75E-07	1YrCancerD	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2880	ALL	634790.1	4272394	1.77E-07	1YrCancerD	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2881	ALL	634810.9	4272389	1.47E-07	1YrCancerD	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2882	ALL	634828.4	4272381	1.60E-07	1YrCancerD	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2883	ALL	634845.9	4272371	2.13E-07	1YrCancerD	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2884	ALL	634857.6	4272363	1.76E-07	1YrCancerD	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2885	ALL	634873.2	4272356	1.82E-07	1YrCancerD	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2886	ALL	634888.1	4272350	1.88E-07	1YrCancerD	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2887	ALL	634923.2	4272339	1.99E-07	1YrCancerD	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2888	ALL	634929	4272338	2.35E-07	1YrCancerD	2.35E

2889	ALL	634948.5	4272324	2.81E-07	1YrCancerD	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2890	ALL	634975.1	4272301	3.39E-07	1YrCancerD	3.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2891	ALL	634991.3	4272270	6.19E-07	1YrCancerD	6.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2892	ALL	635047.8	4272254	1.22E-06	1YrCancerD	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2893	ALL	635110.7	4272224	1.36E-06	1YrCancerD	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2894	ALL	635172.2	4272170	1.49E-06	1YrCancerD	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2895	ALL	635251.2	4272096	1.31E-06	1YrCancerD	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2896	ALL	635343.3	4272006	1.15E-06	1YrCancerD	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2897	ALL	635421.9	4271924	1.19E-06	1YrCancerD	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2898	ALL	635515.5	4271825	1.22E-06	1YrCancerD	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2899	ALL	635571.1	4271790	1.09E-06	1YrCancerD	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2900	ALL	635606.2	4271772	6.56E-07	1YrCancerD	6.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2901	ALL	635606.2	4271733	1.02E-06	1YrCancerD	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2902	ALL	635629.6	4271717	3.81E-07	1YrCancerD	3.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2903	ALL	635620.9	4271693	4.31E-07	1YrCancerD	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2904	ALL	635689.4	4271635	3.42E-07	1YrCancerD	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2905	ALL	635729.6	4271600	3.63E-07	1YrCancerD	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2906	ALL	635767.6	4271576	2.08E-07	1YrCancerD	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2907	ALL	635798.4	4271561	3.27E-07	1YrCancerD	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2908	ALL	635851.6	4271538	2.40E-07	1YrCancerD	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2909	ALL	635882.7	4271524	2.46E-07	1YrCancerD	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2910	ALL	635911.8	4271512	1.67E-07	1YrCancerD	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2911	ALL	635954.5	4271499	1.70E-07	1YrCancerD	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2912	ALL	636030.9	4271478	1.61E-07	1YrCancerD	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2913	ALL	636077.5	4271468	1.62E-07	1YrCancerD	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2914	ALL	636174.5	4271456	1.39E-07	1YrCancerD	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2915	ALL	636228.7	4271448	2.07E-07	1YrCancerD	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2916	ALL	636300.5	4271434	1.44E-07	1YrCancerD	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2917	ALL	636374.6	4271422	1.42E-07	1YrCancerD	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2918	ALL	636470.9	4271418	1.63E-07	1YrCancerD	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2919	ALL	636535	4271420	1.39E-07	1YrCancerD	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2920	ALL	636617.5	4271428	1.40E-07	1YrCancerD	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2921	ALL	636772.2	4271443	2.19E-07	1YrCancerD	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2922	ALL	636825	4271449	1.53E-07	1YrCancerD	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2923	ALL	636866.2	4271452	1.61E-07	1YrCancerD	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2924	ALL	636909.6	4271457	1.50E-07	1YrCancerD	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2925	ALL	636940.2	4271459	2.15E-07	1YrCancerD	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2926	ALL	636961.4	4271458	1.47E-07	1YrCancerD	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2927	ALL	637012.1	4271446	1.53E-07	1YrCancerD	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEV	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		636726.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
2	ALL		636766.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
3	ALL		637006.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
4	ALL		637046.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
5	ALL		637086.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
6	ALL		637126.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
7	ALL		637166.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
8	ALL		637206.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
9	ALL		637246.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
10	ALL		637286.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
11	ALL		637326.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
12	ALL		636766.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
13	ALL		637006.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
14	ALL		637046.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
15	ALL		637086.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
16	ALL		637126.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
17	ALL		637166.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
18	ALL		637206.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
19	ALL		637246.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
20	ALL		637286.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
21	ALL		637326.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
22	ALL		636686.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
23	ALL		637006.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
24	ALL		637046.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
25	ALL		637086.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
26	ALL		637126.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
27	ALL		637166.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
28	ALL		637206.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
29	ALL		637246.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
30	ALL		637286.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
31	ALL		637326.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
32	ALL		636686.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
33	ALL		636726.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
34	ALL		636766.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
35	ALL		637046.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
36	ALL		637246.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
37	ALL		637286.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
38	ALL		637326.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
39	ALL		636686.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
40	ALL		636726.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
41	ALL		636766.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
42	ALL		636806.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
43	ALL		637006.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
44	ALL		637086.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
45	ALL		637126.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
46	ALL		637166.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
47	ALL		637286.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
48	ALL		637326.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
49	ALL		637646.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
50	ALL		637686.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
51	ALL		637726.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
52	ALL		637766.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
53	ALL		637806.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
54	ALL		636686.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
55	ALL		636726.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
56	ALL		636766.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
57	ALL		636806.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
58	ALL		636846.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
59	ALL		637046.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
60	ALL		637086.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
61	ALL		637126.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
62	ALL		637166.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
63	ALL		637286.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
64	ALL		637326.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
65	ALL		637646.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
66	ALL		637686.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
67	ALL		637726.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
68	ALL		637766.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
69	ALL		637806.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
70	ALL		636526.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
71	ALL		636566.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
72	ALL		636686.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
73	ALL		636726.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
74	ALL		636766.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
75	ALL		636806.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
76	ALL		636846.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
77	ALL		636966.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
78	ALL		637006.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05
79	ALL		637046.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
80	ALL		637086.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
81	ALL		637126.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
82	ALL		637166.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
83	ALL		637206.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
84	ALL		637246.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
85	ALL		637286.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
86	ALL		637326.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
87	ALL		637646.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
88	ALL		637686.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
89	ALL		637726.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
90	ALL		637766.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
91	ALL		637806.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
92	ALL		636566.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
93	ALL		636686.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
94	ALL		636726.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
95	ALL		636766.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
96	ALL		636806.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05

99	ALL	637046.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
100	ALL	637086.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
101	ALL	637126.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
102	ALL	637166.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
103	ALL	637206.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
104	ALL	637246.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
105	ALL	637286.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
106	ALL	637646.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
107	ALL	637686.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
108	ALL	637726.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
109	ALL	637766.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
110	ALL	637806.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
111	ALL	636566.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
112	ALL	636646.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
113	ALL	636686.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
114	ALL	636726.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
115	ALL	636766.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
116	ALL	636806.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
117	ALL	637046.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
118	ALL	637086.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
119	ALL	637126.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
120	ALL	637166.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
121	ALL	637206.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
122	ALL	637246.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
123	ALL	637286.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
124	ALL	637606.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
125	ALL	637646.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
126	ALL	637686.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
127	ALL	637726.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
128	ALL	637766.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
129	ALL	637806.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
130	ALL	637086.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
131	ALL	637126.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
132	ALL	637166.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
133	ALL	637206.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
134	ALL	637246.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
135	ALL	637286.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
136	ALL	637606.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
137	ALL	637646.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
138	ALL	637686.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
139	ALL	637726.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
140	ALL	637766.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
141	ALL	637806.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
142	ALL	637846.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
143	ALL	636766.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
144	ALL	636806.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
145	ALL	637086.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
146	ALL	637126.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
147	ALL	637166.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
148	ALL	637206.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
149	ALL	637246.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
150	ALL	637286.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
151	ALL	637606.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
152	ALL	637646.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
153	ALL	637686.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
154	ALL	637766.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
155	ALL	637806.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
156	ALL	637846.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
157	ALL	633686.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
158	ALL	633726.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
159	ALL	633766.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
160	ALL	633806.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
161	ALL	633846.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
162	ALL	636246.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
163	ALL	636286.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
164	ALL	636326.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
165	ALL	636366.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
166	ALL	636406.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
167	ALL	636766.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
168	ALL	636806.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
169	ALL	636886.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
170	ALL	636926.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
171	ALL	636966.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
172	ALL	637166.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
173	ALL	637206.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05
174	ALL	637246.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05
175	ALL	637566.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
176	ALL	637606.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
177	ALL	637646.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
178	ALL	637686.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
179	ALL	637766.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
180	ALL	637806.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
181	ALL	637846.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
182	ALL	633566.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
183	ALL	633606.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
184	ALL	633646.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
185	ALL	633686.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
186	ALL	633726.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
187	ALL	633766.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
188	ALL	633806.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
189	ALL	633846.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
190	ALL	636246.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
191

198	ALL	636726.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-05
199	ALL	636766.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
200	ALL	636806.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
201	ALL	636846.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
202	ALL	636886.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
203	ALL	636926.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05
204	ALL	636966.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
205	ALL	637006.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
206	ALL	637046.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05
207	ALL	637086.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
208	ALL	637246.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
209	ALL	637566.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
210	ALL	637606.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
211	ALL	637646.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
212	ALL	637686.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
213	ALL	637726.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
214	ALL	637806.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
215	ALL	637846.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
216	ALL	637886.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
217	ALL	637926.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
218	ALL	637966.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
219	ALL	633606.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
220	ALL	633646.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
221	ALL	633686.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
222	ALL	633726.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
223	ALL	633766.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
224	ALL	633806.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
225	ALL	633846.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
226	ALL	636246.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
227	ALL	636286.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
228	ALL	636326.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
229	ALL	636406.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
230	ALL	636446.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
231	ALL	636606.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
232	ALL	636646.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
233	ALL	636686.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
234	ALL	636726.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
235	ALL	636766.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05
236	ALL	636806.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
237	ALL	636846.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
238	ALL	636886.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
239	ALL	636926.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05
240	ALL	636966.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
241	ALL	637006.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05
242	ALL	637046.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
243	ALL	637086.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
244	ALL	637126.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05
245	ALL	637166.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
246	ALL	637206.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
247	ALL	637246.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
248	ALL	637566.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05
249	ALL	637606.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05
250	ALL	637646.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
251	ALL	637686.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
252	ALL	637726.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
253	ALL	637806.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
254	ALL	637846.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
255	ALL	637886.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
256	ALL	637926.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
257	ALL	637966.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
258	ALL	633606.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
259	ALL	633646.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
260	ALL	633686.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
261	ALL	633726.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
262	ALL	633766.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
263	ALL	633806.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
264	ALL	633846.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
265	ALL	633886.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
266	ALL	636246.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
267	ALL	636286.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
268	ALL	636326.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
269	ALL	636406.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
270	ALL	636446.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
271	ALL	636606.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
272	ALL	636646.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
273	ALL	636686.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
274	ALL	636726.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
275	ALL	636766.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
276	ALL	636846.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
277	ALL	636886.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
278	ALL	636926.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
279	ALL	636966.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
280	ALL	637006.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
281	ALL	637046.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
282	ALL	637086.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
283	ALL	637126.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
284	ALL	637166.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
285	ALL	637206.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-05
286	ALL	637246.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05
287	ALL	637606.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
288	ALL	637646.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05
289	ALL	637686.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
290

297	ALL	633246.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
298	ALL	633286.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
299	ALL	633326.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
300	ALL	633486.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
301	ALL	633526.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
302	ALL	633566.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
303	ALL	633606.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
304	ALL	633646.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
305	ALL	633686.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
306	ALL	633726.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
307	ALL	633766.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
308	ALL	633806.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
309	ALL	633846.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
310	ALL	633886.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
311	ALL	636246.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
312	ALL	636286.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
313	ALL	636326.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
314	ALL	636366.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
315	ALL	636406.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
316	ALL	636446.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
317	ALL	636566.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
318	ALL	636606.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
319	ALL	636646.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
320	ALL	636686.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
321	ALL	636726.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
322	ALL	636806.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
323	ALL	636846.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05
324	ALL	637006.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
325	ALL	637046.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
326	ALL	637086.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
327	ALL	637126.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
328	ALL	637166.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
329	ALL	637206.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
330	ALL	637246.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
331	ALL	637566.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
332	ALL	637646.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
333	ALL	637686.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
334	ALL	637726.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
335	ALL	637766.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
336	ALL	637806.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
337	ALL	637886.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
338	ALL	637926.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
339	ALL	637966.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
340	ALL	638006.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
341	ALL	633126.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
342	ALL	633166.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
343	ALL	633206.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
344	ALL	633486.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
345	ALL	633526.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
346	ALL	633566.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
347	ALL	633606.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
348	ALL	633766.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
349	ALL	633806.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
350	ALL	636246.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
351	ALL	636286.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
352	ALL	636326.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
353	ALL	636366.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
354	ALL	636406.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
355	ALL	636446.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
356	ALL	636566.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
357	ALL	636606.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-05
358	ALL	636646.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05
359	ALL	636686.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
360	ALL	636766.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
361	ALL	636806.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
362	ALL	636846.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05
363	ALL	636886.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
364	ALL	636926.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
365	ALL	636966.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
366	ALL	637046.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
367	ALL	637086.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
368	ALL	637126.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
369	ALL	637166.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
370	ALL	637206.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
371	ALL	637246.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
372	ALL	637566.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05
373	ALL	637606.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
374	ALL	637686.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
375	ALL	637726.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05
376	ALL	637766.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
377	ALL	637806.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
378	ALL	637886.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
379	ALL	637926.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
380	ALL	637966.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
381	ALL	638006.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
382	ALL	638046.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
383	ALL	633086.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
384	ALL	633126.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
385	ALL	633166.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
386	ALL	633206.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
387	ALL	633486.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
388	ALL	636286.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
389

396	ALL	636686.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-04
397	ALL	636766.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
398	ALL	636806.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
399	ALL	636846.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
400	ALL	636886.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
401	ALL	636926.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
402	ALL	636966.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
403	ALL	637046.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
404	ALL	637166.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
405	ALL	637206.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
406	ALL	637246.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
407	ALL	637566.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-05
408	ALL	637606.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05
409	ALL	637646.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
410	ALL	637726.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
411	ALL	637766.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
412	ALL	637806.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
413	ALL	637846.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
414	ALL	637926.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
415	ALL	637966.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
416	ALL	638006.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
417	ALL	638046.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
418	ALL	638086.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
419	ALL	638126.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
420	ALL	633086.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
421	ALL	633126.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
422	ALL	633166.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
423	ALL	633206.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
424	ALL	633246.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
425	ALL	636286.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
426	ALL	636366.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
427	ALL	636446.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
428	ALL	636566.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
429	ALL	636606.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
430	ALL	636646.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
431	ALL	636686.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
432	ALL	636766.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
433	ALL	636806.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
434	ALL	636846.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05
435	ALL	636886.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
436	ALL	636926.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
437	ALL	637006.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
438	ALL	637046.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
439	ALL	637086.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
440	ALL	637126.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
441	ALL	637166.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
442	ALL	637566.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
443	ALL	637606.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05
444	ALL	637646.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-05
445	ALL	637686.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
446	ALL	637766.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
447	ALL	637806.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
448	ALL	637846.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
449	ALL	637886.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
450	ALL	637966.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
451	ALL	638006.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
452	ALL	638046.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
453	ALL	638086.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
454	ALL	638126.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
455	ALL	638166.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
456	ALL	638206.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
457	ALL	638246.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
458	ALL	633086.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
459	ALL	633126.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
460	ALL	633166.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
461	ALL	633206.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
462	ALL	633246.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
463	ALL	636286.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
464	ALL	636366.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
465	ALL	636446.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
466	ALL	636566.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
467	ALL	636606.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-04
468	ALL	636646.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
469	ALL	636686.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
470	ALL	636726.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05
471	ALL	636766.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
472	ALL	636846.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05
473	ALL	636886.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
474	ALL	636926.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
475	ALL	637006.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
476	ALL	637046.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
477	ALL	637086.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
478	ALL	637126.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
479	ALL	637166.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
480	ALL	637606.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
481	ALL	637646.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
482	ALL	637686.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05
483	ALL	637886.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
484	ALL	637926.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
485	ALL	638046.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
486	ALL	638086.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
487	ALL	638126.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
488	ALL	638166.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
489	ALL	638206.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
490	ALL	638246.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
491	ALL	633086.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
492	ALL	636286.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
493	ALL	636366.

495	ALL	636446.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
496	ALL	636526.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05
497	ALL	636646.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
498	ALL	636686.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
499	ALL	636726.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
500	ALL	636766.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
501	ALL	636846.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
502	ALL	636886.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
503	ALL	636966.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
504	ALL	637006.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
505	ALL	637046.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
506	ALL	637086.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
507	ALL	637166.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
508	ALL	637206.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
509	ALL	637606.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
510	ALL	637646.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
511	ALL	637686.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
512	ALL	637726.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
513	ALL	637926.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
514	ALL	637966.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
515	ALL	638006.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
516	ALL	638086.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
517	ALL	638126.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
518	ALL	638166.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
519	ALL	638206.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
520	ALL	638246.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
521	ALL	633886.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
522	ALL	633926.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
523	ALL	636286.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
524	ALL	636326.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
525	ALL	636366.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
526	ALL	636406.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
527	ALL	636446.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
528	ALL	636526.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
529	ALL	636606.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
530	ALL	636646.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
531	ALL	636766.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
532	ALL	636846.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
533	ALL	636886.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
534	ALL	636926.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
535	ALL	636966.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
536	ALL	637006.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
537	ALL	637046.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
538	ALL	637126.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
539	ALL	637166.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
540	ALL	637206.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
541	ALL	637606.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
542	ALL	637646.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
543	ALL	637686.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
544	ALL	637726.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
545	ALL	637766.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
546	ALL	637966.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
547	ALL	638006.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
548	ALL	638046.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
549	ALL	638086.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
550	ALL	638166.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
551	ALL	638206.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
552	ALL	638246.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
553	ALL	638286.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
554	ALL	633766.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05
555	ALL	633806.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05
556	ALL	633846.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05
557	ALL	633886.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05
558	ALL	633926.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
559	ALL	636206.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
560	ALL	636526.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05
561	ALL	636606.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
562	ALL	636646.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05
563	ALL	636686.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
564	ALL	636726.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
565	ALL	636766.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
566	ALL	636926.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
567	ALL	636966.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
568	ALL	637006.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
569	ALL	637046.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
570	ALL	637126.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
571	ALL	637166.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
572	ALL	637206.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
573	ALL	637606.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
574	ALL	637646.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
575	ALL	637686.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
576	ALL	637726.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
577	ALL	637766.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
578	ALL	637886.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05
579	ALL	637926.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05
580	ALL	637966.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
581	ALL	638046.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
582	ALL	638086.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
583	ALL	638126.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
584	ALL	638166.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
585	ALL	633686.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
586	ALL	633726.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
587

594	ALL	636326.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
595	ALL	636366.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
596	ALL	636406.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
597	ALL	636526.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05
598	ALL	636566.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
599	ALL	636606.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
600	ALL	636646.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05
601	ALL	636686.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
602	ALL	636726.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
603	ALL	636766.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
604	ALL	636806.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
605	ALL	636846.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
606	ALL	637006.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
607	ALL	637046.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
608	ALL	637086.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
609	ALL	637126.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
610	ALL	637166.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
611	ALL	637206.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
612	ALL	637646.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
613	ALL	637686.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
614	ALL	637726.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
615	ALL	637766.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
616	ALL	637806.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
617	ALL	637966.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
618	ALL	638006.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
619	ALL	638046.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
620	ALL	638126.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
621	ALL	633646.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
622	ALL	633686.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
623	ALL	633726.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
624	ALL	633766.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05
625	ALL	633806.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05
626	ALL	633846.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
627	ALL	633886.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05
628	ALL	633926.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
629	ALL	636206.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
630	ALL	636286.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
631	ALL	636326.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
632	ALL	636366.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
633	ALL	636406.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
634	ALL	636526.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05
635	ALL	636606.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
636	ALL	636646.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05
637	ALL	636686.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
638	ALL	636726.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
639	ALL	636806.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
640	ALL	636846.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
641	ALL	636886.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
642	ALL	636926.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
643	ALL	637086.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
644	ALL	637126.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
645	ALL	637166.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
646	ALL	637206.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
647	ALL	637646.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
648	ALL	637686.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
649	ALL	637726.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
650	ALL	637766.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
651	ALL	637806.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
652	ALL	637846.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
653	ALL	638006.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
654	ALL	638046.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
655	ALL	638086.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
656	ALL	633406.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05
657	ALL	633446.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
658	ALL	633646.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
659	ALL	633686.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
660	ALL	633726.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
661	ALL	633766.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05
662	ALL	633806.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
663	ALL	633846.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05
664	ALL	633886.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
665	ALL	633926.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
666	ALL	636206.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
667	ALL	636286.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
668	ALL	636326.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
669	ALL	636366.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
670	ALL	636406.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
671	ALL	636486.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
672	ALL	636526.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05
673	ALL	636606.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
674	ALL	636646.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
675	ALL	636686.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
676	ALL	636766.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
677	ALL	636806.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
678	ALL	636886.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
679	ALL	636966.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
680	ALL	637006.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
681	ALL	637086.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
682	ALL	637166.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
683	ALL	637206.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
684	ALL	637646.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
685	ALL	637686.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
686	ALL	637726.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
687	ALL	637766.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
688	ALL	637806.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
689	ALL	637846.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
690	ALL	633366.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
691	ALL	633406.

693	ALL	633646.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
694	ALL	633686.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
695	ALL	633726.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
696	ALL	633766.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
697	ALL	633806.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-05
698	ALL	633846.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05
699	ALL	633886.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
700	ALL	633926.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05
701	ALL	636206.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
702	ALL	636486.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
703	ALL	636526.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
704	ALL	636566.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
705	ALL	636606.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
706	ALL	636646.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
707	ALL	636726.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
708	ALL	636766.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-05
709	ALL	636846.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
710	ALL	636886.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
711	ALL	636966.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
712	ALL	637046.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
713	ALL	637086.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
714	ALL	637126.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
715	ALL	637166.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
716	ALL	637646.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
717	ALL	637686.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
718	ALL	637726.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
719	ALL	637766.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
720	ALL	637806.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
721	ALL	637846.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
722	ALL	637886.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
723	ALL	633406.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
724	ALL	633446.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
725	ALL	633646.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
726	ALL	633686.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
727	ALL	633726.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
728	ALL	633766.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
729	ALL	633806.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05
730	ALL	633846.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
731	ALL	633886.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
732	ALL	633926.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
733	ALL	636206.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
734	ALL	636486.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
735	ALL	636526.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
736	ALL	636566.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
737	ALL	636686.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05
738	ALL	636726.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05
739	ALL	636806.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
740	ALL	636846.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
741	ALL	636926.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
742	ALL	636966.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
743	ALL	637046.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
744	ALL	637086.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
745	ALL	637126.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
746	ALL	637166.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
747	ALL	637206.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
748	ALL	637246.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
749	ALL	637686.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
750	ALL	637726.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
751	ALL	637766.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
752	ALL	637806.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
753	ALL	637846.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
754	ALL	637886.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05
755	ALL	637926.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
756	ALL	633446.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
757	ALL	633486.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
758	ALL	633686.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
759	ALL	633726.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
760	ALL	633766.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
761	ALL	633806.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05
762	ALL	636206.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
763	ALL	636486.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
764	ALL	636526.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05
765	ALL	636566.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
766	ALL	636606.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
767	ALL	636686.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
768	ALL	636766.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
769	ALL	636806.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
770	ALL	636886.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
771	ALL	636926.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
772	ALL	637006.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
773	ALL	637046.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
774	ALL	637086.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
775	ALL	637126.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
776	ALL	637206.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
777	ALL	637246.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
778	ALL	637686.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
779	ALL	637726.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
780	ALL	637766.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
781	ALL	637806.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
782	ALL	637846.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
783	ALL	633326.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
784	ALL	633366.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
785

792	ALL	636486.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
793	ALL	636526.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
794	ALL	636566.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
795	ALL	636606.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05
796	ALL	636646.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
797	ALL	636686.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
798	ALL	636726.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
799	ALL	636766.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05
800	ALL	636846.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
801	ALL	636886.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
802	ALL	636966.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
803	ALL	637006.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
804	ALL	637046.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
805	ALL	637086.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
806	ALL	637126.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
807	ALL	637166.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
808	ALL	637246.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
809	ALL	637686.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
810	ALL	637726.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
811	ALL	637766.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
812	ALL	633326.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
813	ALL	633366.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
814	ALL	633406.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-05
815	ALL	633446.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
816	ALL	633486.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
817	ALL	633526.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-04
818	ALL	633686.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-04
819	ALL	633726.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
820	ALL	633766.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
821	ALL	636206.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
822	ALL	636446.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
823	ALL	636486.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
824	ALL	636526.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
825	ALL	636566.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05
826	ALL	636606.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-05
827	ALL	636646.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
828	ALL	636686.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
829	ALL	636726.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
830	ALL	636806.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
831	ALL	636846.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
832	ALL	636926.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
833	ALL	636966.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
834	ALL	637006.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
835	ALL	637046.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
836	ALL	637086.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
837	ALL	637166.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
838	ALL	637246.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
839	ALL	637286.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
840	ALL	637726.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
841	ALL	637766.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
842	ALL	638086.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05
843	ALL	638126.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
844	ALL	638206.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
845	ALL	638246.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
846	ALL	638286.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
847	ALL	638326.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
848	ALL	638366.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
849	ALL	633326.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
850	ALL	633366.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
851	ALL	633406.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05
852	ALL	633446.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
853	ALL	633486.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
854	ALL	633526.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
855	ALL	633726.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
856	ALL	633766.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
857	ALL	636206.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
858	ALL	636446.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
859	ALL	636486.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
860	ALL	636526.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
861	ALL	636566.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
862	ALL	636606.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
863	ALL	636646.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05
864	ALL	636686.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
865	ALL	636766.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
866	ALL	636806.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
867	ALL	636886.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
868	ALL	636926.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
869	ALL	636966.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
870	ALL	637006.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
871	ALL	637046.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
872	ALL	637086.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
873	ALL	637126.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
874	ALL	637166.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
875	ALL	637246.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
876	ALL	637286.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
877	ALL	637726.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
878	ALL	637766.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
879	ALL	637806.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
880	ALL	638086.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
881	ALL	638126.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
882	ALL	638206.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
883	ALL	638246.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
884

891	ALL	633486.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
892	ALL	633526.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
893	ALL	633726.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
894	ALL	633766.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
895	ALL	633806.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
896	ALL	636406.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
897	ALL	636446.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
898	ALL	636486.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
899	ALL	636526.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
900	ALL	636566.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
901	ALL	636606.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
902	ALL	636646.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
903	ALL	636686.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
904	ALL	636726.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
905	ALL	636846.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
906	ALL	636886.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
907	ALL	636926.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05
908	ALL	636966.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
909	ALL	637006.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
910	ALL	637046.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
911	ALL	637086.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
912	ALL	637126.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
913	ALL	637166.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
914	ALL	637246.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
915	ALL	637286.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
916	ALL	637726.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
917	ALL	637766.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
918	ALL	637806.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
919	ALL	637966.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
920	ALL	638006.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
921	ALL	638086.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
922	ALL	638126.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
923	ALL	638206.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
924	ALL	638246.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
925	ALL	638286.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
926	ALL	638326.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
927	ALL	638366.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
928	ALL	633366.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-05
929	ALL	633406.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
930	ALL	633446.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05
931	ALL	633486.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
932	ALL	633526.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
933	ALL	633566.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
934	ALL	633726.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-04
935	ALL	633766.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
936	ALL	633806.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
937	ALL	636206.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
938	ALL	636446.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
939	ALL	636486.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
940	ALL	636526.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
941	ALL	636566.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
942	ALL	636606.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
943	ALL	636646.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
944	ALL	636686.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
945	ALL	636726.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05
946	ALL	636766.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
947	ALL	636846.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
948	ALL	636886.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05
949	ALL	636926.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
950	ALL	636966.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
951	ALL	637006.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-05
952	ALL	637046.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
953	ALL	637086.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
954	ALL	637126.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
955	ALL	637206.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
956	ALL	637246.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
957	ALL	637286.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
958	ALL	637726.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
959	ALL	637766.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
960	ALL	637806.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
961	ALL	637846.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
962	ALL	637966.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
963	ALL	638006.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
964	ALL	638086.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
965	ALL	638126.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
966	ALL	638206.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
967	ALL	638246.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
968	ALL	638286.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
969	ALL	638326.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
970	ALL	638366.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
971	ALL	633366.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
972	ALL	633406.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
973	ALL	633446.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05
974	ALL	633486.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
975	ALL	633526.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
976	ALL	633566.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
977	ALL	633766.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
978	ALL	633806.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
979	ALL	636206.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
980	ALL	636406.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
981	ALL	636446.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
982	ALL	636486.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
983	ALL	636526.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
984	ALL	636566.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
985	ALL	636606.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
986	ALL	636646.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
987	ALL	636686.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
988	ALL	636726.

990	ALL	636806.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
991	ALL	636886.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
992	ALL	636926.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05
993	ALL	636966.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
994	ALL	637006.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
995	ALL	637046.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
996	ALL	637086.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
997	ALL	637126.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
998	ALL	637166.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
999	ALL	637206.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1000	ALL	637246.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1001	ALL	637286.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1002	ALL	637726.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1003	ALL	637766.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1004	ALL	637806.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
1005	ALL	637846.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
1006	ALL	637966.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05
1007	ALL	638006.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1008	ALL	638086.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1009	ALL	638126.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
1010	ALL	638166.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
1011	ALL	638206.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1012	ALL	638246.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1013	ALL	638326.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1014	ALL	638366.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1015	ALL	633366.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
1016	ALL	633406.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
1017	ALL	633446.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05
1018	ALL	633486.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1019	ALL	633526.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
1020	ALL	633566.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
1021	ALL	633766.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
1022	ALL	633806.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
1023	ALL	633846.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1024	ALL	634246.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
1025	ALL	634286.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
1026	ALL	634326.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1027	ALL	634366.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1028	ALL	634446.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1029	ALL	634486.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1030	ALL	634526.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1031	ALL	634566.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1032	ALL	634606.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1033	ALL	634646.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1034	ALL	634686.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1035	ALL	634726.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1036	ALL	634806.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1037	ALL	634846.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1038	ALL	634886.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1039	ALL	634926.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1040	ALL	634966.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1041	ALL	636206.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
1042	ALL	636246.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
1043	ALL	636366.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
1044	ALL	636406.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
1045	ALL	636446.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
1046	ALL	636486.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1047	ALL	636526.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
1048	ALL	636566.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1049	ALL	636606.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1050	ALL	636646.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
1051	ALL	636686.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
1052	ALL	636726.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05
1053	ALL	636766.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05
1054	ALL	636806.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05
1055	ALL	636846.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
1056	ALL	636886.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
1057	ALL	636926.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1058	ALL	636966.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05
1059	ALL	637006.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
1060	ALL	637046.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
1061	ALL	637086.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
1062	ALL	637126.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
1063	ALL	637166.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
1064	ALL	637206.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1065	ALL	637246.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1066	ALL	637286.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1067	ALL	637726.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1068	ALL	637766.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1069	ALL	637806.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1070	ALL	637846.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1071	ALL	637886.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1072	ALL	637966.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
1073	ALL	638086.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1074	ALL	638126.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05
1075	ALL	638166.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
1076	ALL	638206.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
1077	ALL	638246.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
1078	ALL	638326.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1079	ALL	638366.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1080	ALL	633406.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05
1081	ALL	633446.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
1082	ALL	633486.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1083	ALL	633526.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1084	ALL	633566.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
1085	ALL	633606.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-04
1086	ALL	633766.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04

1089	ALL	634126.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
1090	ALL	634166.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1091	ALL	634206.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1092	ALL	634246.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1093	ALL	634286.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1094	ALL	634366.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1095	ALL	634406.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1096	ALL	634446.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1097	ALL	634486.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1098	ALL	634566.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1099	ALL	634606.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1100	ALL	634646.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1101	ALL	634726.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1102	ALL	634766.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1103	ALL	634806.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1104	ALL	634846.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1105	ALL	634886.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1106	ALL	634926.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1107	ALL	634966.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1108	ALL	635046.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1109	ALL	635086.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1110	ALL	635686.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
1111	ALL	635726.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
1112	ALL	635766.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
1113	ALL	635806.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
1114	ALL	635846.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
1115	ALL	635886.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1116	ALL	635926.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1117	ALL	635966.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
1118	ALL	636006.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1119	ALL	636046.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
1120	ALL	636086.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
1121	ALL	636126.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1122	ALL	636166.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
1123	ALL	636206.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1124	ALL	636366.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
1125	ALL	636406.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1126	ALL	636446.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
1127	ALL	636486.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1128	ALL	636526.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1129	ALL	636566.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
1130	ALL	636606.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1131	ALL	636646.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
1132	ALL	636686.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1133	ALL	636726.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
1134	ALL	636766.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
1135	ALL	636806.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05
1136	ALL	636846.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1137	ALL	636886.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
1138	ALL	636926.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
1139	ALL	636966.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05
1140	ALL	637046.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
1141	ALL	637086.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
1142	ALL	637126.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-05
1143	ALL	637166.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1144	ALL	637206.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
1145	ALL	637246.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
1146	ALL	637766.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
1147	ALL	637806.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1148	ALL	637846.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1149	ALL	637886.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1150	ALL	637926.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
1151	ALL	637966.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
1152	ALL	638086.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1153	ALL	638126.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
1154	ALL	638166.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
1155	ALL	638206.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
1156	ALL	638246.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
1157	ALL	638326.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1158	ALL	638366.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1159	ALL	633406.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05
1160	ALL	633446.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05
1161	ALL	633486.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05
1162	ALL	633526.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1163	ALL	633566.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
1164	ALL	633606.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
1165	ALL	633806.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1166	ALL	633846.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1167	ALL	634006.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
1168	ALL	634046.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1169	ALL	634086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
1170	ALL	634126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1171	ALL	634166.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1172	ALL	634206.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1173	ALL	634246.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1174	ALL	634286.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1175	ALL	634326.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1176	ALL	634366.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1177	ALL	634406.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1178	ALL	634446.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1179	ALL	634486.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1180	ALL	634526.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06

1188	ALL	634846.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
1189	ALL	634886.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1190	ALL	634926.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1191	ALL	634966.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1192	ALL	635006.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1193	ALL	635046.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1194	ALL	635086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1195	ALL	635126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1196	ALL	635686.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1197	ALL	635726.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1198	ALL	635766.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
1199	ALL	635806.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
1200	ALL	635846.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1201	ALL	635886.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1202	ALL	635926.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
1203	ALL	635966.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
1204	ALL	636006.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1205	ALL	636046.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
1206	ALL	636086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
1207	ALL	636126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1208	ALL	636166.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
1209	ALL	636326.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1210	ALL	636366.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1211	ALL	636406.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
1212	ALL	636446.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1213	ALL	636486.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
1214	ALL	636526.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
1215	ALL	636566.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
1216	ALL	636606.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
1217	ALL	636646.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
1218	ALL	636726.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
1219	ALL	636766.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
1220	ALL	636806.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
1221	ALL	636846.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
1222	ALL	636886.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1223	ALL	637006.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05
1224	ALL	637046.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05
1225	ALL	637086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
1226	ALL	637126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
1227	ALL	637166.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
1228	ALL	637206.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
1229	ALL	637766.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1230	ALL	637806.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1231	ALL	637846.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1232	ALL	637886.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1233	ALL	637926.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1234	ALL	637966.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
1235	ALL	638086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
1236	ALL	638126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
1237	ALL	638166.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1238	ALL	638206.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1239	ALL	638246.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
1240	ALL	638326.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1241	ALL	638366.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1242	ALL	633406.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
1243	ALL	633446.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
1244	ALL	633486.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05
1245	ALL	633526.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1246	ALL	633566.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1247	ALL	633606.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
1248	ALL	633806.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1249	ALL	633886.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-05
1250	ALL	633926.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05
1251	ALL	633966.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
1252	ALL	634006.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
1253	ALL	634046.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
1254	ALL	634126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
1255	ALL	634166.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
1256	ALL	634206.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1257	ALL	634286.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1258	ALL	634326.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1259	ALL	634366.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1260	ALL	634406.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1261	ALL	634486.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1262	ALL	634566.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1263	ALL	634606.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1264	ALL	634646.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1265	ALL	634686.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1266	ALL	634726.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1267	ALL	634766.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1268	ALL	634846.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1269	ALL	634886.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1270	ALL	634926.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1271	ALL	634966.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1272	ALL	635006.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1273	ALL	635046.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
1274	ALL	635086.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1275	ALL	635126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1276	ALL	635166.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1277	ALL	635686.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
1278	ALL	635726.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
1279	ALL	635766.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31

1287	ALL	636086.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
1288	ALL	636126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
1289	ALL	636286.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1290	ALL	636326.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
1291	ALL	636366.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
1292	ALL	636406.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1293	ALL	636446.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
1294	ALL	636486.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
1295	ALL	636526.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
1296	ALL	636566.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
1297	ALL	636646.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1298	ALL	636686.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
1299	ALL	636726.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
1300	ALL	636766.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
1301	ALL	636806.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-05
1302	ALL	636846.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
1303	ALL	636886.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05
1304	ALL	636926.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1305	ALL	637006.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1306	ALL	637046.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
1307	ALL	637086.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
1308	ALL	637126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
1309	ALL	637166.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
1310	ALL	637766.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1311	ALL	637806.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1312	ALL	637846.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1313	ALL	637886.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1314	ALL	637926.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1315	ALL	637966.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05
1316	ALL	638086.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-05
1317	ALL	638126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-05
1318	ALL	638166.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
1319	ALL	638206.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
1320	ALL	638246.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1321	ALL	638326.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
1322	ALL	638366.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1323	ALL	633326.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
1324	ALL	633366.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-05
1325	ALL	633406.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05
1326	ALL	633446.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
1327	ALL	633486.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
1328	ALL	633526.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1329	ALL	633566.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1330	ALL	633606.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
1331	ALL	633806.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
1332	ALL	633846.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1333	ALL	633886.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
1334	ALL	633926.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05
1335	ALL	633966.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
1336	ALL	634006.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
1337	ALL	634046.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
1338	ALL	634086.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
1339	ALL	634126.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1340	ALL	634166.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
1341	ALL	634206.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
1342	ALL	634246.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
1343	ALL	634286.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1344	ALL	634326.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1345	ALL	634406.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1346	ALL	634486.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1347	ALL	634526.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
1348	ALL	634566.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1349	ALL	634606.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1350	ALL	634646.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1351	ALL	634726.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1352	ALL	634766.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1353	ALL	634806.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1354	ALL	634886.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1355	ALL	634966.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1356	ALL	635006.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1357	ALL	635046.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
1358	ALL	635086.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1359	ALL	635166.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1360	ALL	635686.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
1361	ALL	635726.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
1362	ALL	635766.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
1363	ALL	635806.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
1364	ALL	635846.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
1365	ALL	635886.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1366	ALL	635926.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05
1367	ALL	635966.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
1368	ALL	636006.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
1369	ALL	636046.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
1370	ALL	636086.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1371	ALL	636206.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
1372	ALL	636286.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
1373	ALL	636326.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
1374	ALL	636366.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
1375	ALL	636566.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
1376	ALL	636606.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
1377	ALL	636646.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1378	ALL	636686.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81

1386	ALL	637086.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
1387	ALL	637126.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05
1388	ALL	637766.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1389	ALL	637806.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1390	ALL	637846.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1391	ALL	637886.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1392	ALL	637926.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1393	ALL	637966.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
1394	ALL	633326.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1395	ALL	633366.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
1396	ALL	633406.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
1397	ALL	633446.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05
1398	ALL	633486.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05
1399	ALL	633846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1400	ALL	633886.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05
1401	ALL	633966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
1402	ALL	634006.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
1403	ALL	634046.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
1404	ALL	634086.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1405	ALL	634126.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
1406	ALL	634166.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
1407	ALL	634206.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
1408	ALL	634246.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
1409	ALL	634286.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1410	ALL	634326.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1411	ALL	634366.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1412	ALL	634566.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1413	ALL	634606.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1414	ALL	634686.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1415	ALL	634726.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1416	ALL	634766.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1417	ALL	634806.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1418	ALL	634846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1419	ALL	634966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1420	ALL	635006.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1421	ALL	635046.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1422	ALL	635086.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1423	ALL	635126.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
1424	ALL	635166.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1425	ALL	635246.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1426	ALL	635326.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
1427	ALL	635366.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
1428	ALL	635406.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1429	ALL	635446.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
1430	ALL	635686.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05
1431	ALL	635726.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
1432	ALL	635766.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
1433	ALL	635806.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
1434	ALL	635846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
1435	ALL	635886.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
1436	ALL	635926.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
1437	ALL	635966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
1438	ALL	636006.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
1439	ALL	636166.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1440	ALL	636246.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1441	ALL	636286.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1442	ALL	636326.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1443	ALL	636366.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
1444	ALL	636406.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
1445	ALL	636446.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1446	ALL	636486.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
1447	ALL	636526.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1448	ALL	636566.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1449	ALL	636606.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
1450	ALL	636646.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1451	ALL	636686.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
1452	ALL	636726.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1453	ALL	636766.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
1454	ALL	636806.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
1455	ALL	636846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
1456	ALL	636886.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
1457	ALL	636926.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05
1458	ALL	636966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
1459	ALL	637006.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
1460	ALL	637046.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
1461	ALL	637806.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1462	ALL	637846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1463	ALL	637886.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
1464	ALL	637926.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
1465	ALL	637966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
1466	ALL	638086.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05
1467	ALL	638126.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
1468	ALL	638166.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
1469	ALL	638206.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
1470	ALL	638246.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1471	ALL	638286.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1472	ALL	638326.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1473	ALL	638366.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1474	ALL	633326.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
1475	ALL	633366.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
1476	ALL	633406.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
1477	ALL	633446.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
1478	ALL	633486.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-05
1479	ALL	633526.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
1480	ALL	633846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1481	ALL	633886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
1482	ALL	633926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1485	ALL	634046.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
1486	ALL	634086.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
1487	ALL	634166.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
1488	ALL	634206.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1489	ALL	634246.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1490	ALL	634646.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1491	ALL	634686.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1492	ALL	634726.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1493	ALL	634766.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1494	ALL	634806.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1495	ALL	634846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1496	ALL	634886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1497	ALL	634926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1498	ALL	635006.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1499	ALL	635046.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1500	ALL	635086.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
1501	ALL	635126.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1502	ALL	635166.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
1503	ALL	635206.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1504	ALL	635246.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
1505	ALL	635286.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1506	ALL	635326.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1507	ALL	635366.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1508	ALL	635406.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1509	ALL	635446.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
1510	ALL	635486.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
1511	ALL	635526.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
1512	ALL	635566.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
1513	ALL	635606.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
1514	ALL	635646.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
1515	ALL	635686.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
1516	ALL	635726.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05
1517	ALL	635766.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
1518	ALL	635806.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
1519	ALL	635846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05
1520	ALL	635886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
1521	ALL	635926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
1522	ALL	636086.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
1523	ALL	636126.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
1524	ALL	636206.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
1525	ALL	636246.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
1526	ALL	636286.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1527	ALL	636326.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
1528	ALL	636366.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1529	ALL	636406.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
1530	ALL	636446.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
1531	ALL	636486.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
1532	ALL	636526.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
1533	ALL	636566.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
1534	ALL	636606.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
1535	ALL	636646.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1536	ALL	636686.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
1537	ALL	636726.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
1538	ALL	636766.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
1539	ALL	636806.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
1540	ALL	636846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05
1541	ALL	636886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
1542	ALL	636926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
1543	ALL	636966.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05
1544	ALL	637006.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1545	ALL	637806.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1546	ALL	637846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1547	ALL	637886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
1548	ALL	637926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
1549	ALL	637966.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
1550	ALL	638086.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05
1551	ALL	638126.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
1552	ALL	638166.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
1553	ALL	638206.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1554	ALL	638246.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1555	ALL	638286.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1556	ALL	638326.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1557	ALL	638366.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1558	ALL	633326.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
1559	ALL	633366.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
1560	ALL	633406.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
1561	ALL	633446.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05
1562	ALL	633486.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05
1563	ALL	633526.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1564	ALL	633606.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
1565	ALL	633646.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1566	ALL	633686.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1567	ALL	633846.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1568	ALL	633886.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05
1569	ALL	633926.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
1570	ALL	633966.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
1571	ALL	634006.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
1572	ALL	634046.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
1573	ALL	634086.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-05
1574	ALL	634246.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1575	ALL	634286.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1576	ALL	634686.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37

1584	ALL	635006.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
1585	ALL	635086.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1586	ALL	635126.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
1587	ALL	635166.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
1588	ALL	635206.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
1589	ALL	635246.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1590	ALL	635286.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1591	ALL	635326.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
1592	ALL	635366.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
1593	ALL	635406.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
1594	ALL	635446.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05
1595	ALL	635486.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
1596	ALL	635526.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
1597	ALL	635566.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-05
1598	ALL	635606.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
1599	ALL	635646.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
1600	ALL	635686.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
1601	ALL	635726.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05
1602	ALL	635766.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
1603	ALL	635806.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
1604	ALL	635846.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05
1605	ALL	636046.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
1606	ALL	636086.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
1607	ALL	636166.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1608	ALL	636206.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
1609	ALL	636246.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
1610	ALL	636286.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
1611	ALL	636326.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1612	ALL	636366.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
1613	ALL	636406.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
1614	ALL	636446.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
1615	ALL	636486.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
1616	ALL	636526.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
1617	ALL	636566.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
1618	ALL	636606.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1619	ALL	636646.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1620	ALL	636686.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
1621	ALL	636726.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
1622	ALL	636766.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
1623	ALL	636806.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
1624	ALL	636846.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
1625	ALL	636886.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
1626	ALL	636926.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
1627	ALL	636966.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05
1628	ALL	637006.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
1629	ALL	637046.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1630	ALL	638086.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05
1631	ALL	638126.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05
1632	ALL	638166.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
1633	ALL	638206.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1634	ALL	638246.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1635	ALL	638286.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1636	ALL	638326.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1637	ALL	638366.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1638	ALL	633366.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
1639	ALL	633406.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
1640	ALL	633446.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
1641	ALL	633486.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
1642	ALL	633526.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1643	ALL	633606.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
1644	ALL	633646.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
1645	ALL	633686.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1646	ALL	633846.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
1647	ALL	633886.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05
1648	ALL	633926.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
1649	ALL	634006.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
1650	ALL	634126.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
1651	ALL	634166.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
1652	ALL	634206.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1653	ALL	634246.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1654	ALL	634726.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
1655	ALL	634766.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
1656	ALL	634846.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
1657	ALL	634886.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1658	ALL	634926.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
1659	ALL	634966.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
1660	ALL	635046.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
1661	ALL	635086.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
1662	ALL	635166.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
1663	ALL	635206.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
1664	ALL	635246.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
1665	ALL	635286.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
1666	ALL	635326.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
1667	ALL	635406.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
1668	ALL	635446.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
1669	ALL	635486.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
1670	ALL	635526.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
1671	ALL	635566.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
1672	ALL	635606.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05
1673	ALL	635646.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-05
1674	ALL	635686.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05
1675	ALL	635726.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40

1683	ALL	636246.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
1684	ALL	636286.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
1685	ALL	636326.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
1686	ALL	636366.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05
1687	ALL	636406.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
1688	ALL	636446.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
1689	ALL	636486.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
1690	ALL	636526.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
1691	ALL	636566.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-05
1692	ALL	636606.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
1693	ALL	636646.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
1694	ALL	636686.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
1695	ALL	636726.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
1696	ALL	636766.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
1697	ALL	636806.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
1698	ALL	636846.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
1699	ALL	636886.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
1700	ALL	636926.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
1701	ALL	636966.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-05
1702	ALL	637006.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
1703	ALL	637046.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
1704	ALL	637086.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
1705	ALL	637846.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1706	ALL	637886.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
1707	ALL	637966.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
1708	ALL	638086.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-05
1709	ALL	638126.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
1710	ALL	638166.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
1711	ALL	638206.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1712	ALL	638246.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1713	ALL	638286.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1714	ALL	638326.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1715	ALL	638366.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1716	ALL	633366.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
1717	ALL	633406.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
1718	ALL	633446.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
1719	ALL	633486.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
1720	ALL	633526.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
1721	ALL	633566.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
1722	ALL	633606.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
1723	ALL	633646.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1724	ALL	633686.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
1725	ALL	633726.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1726	ALL	633886.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05
1727	ALL	634006.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
1728	ALL	634046.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
1729	ALL	634086.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
1730	ALL	634126.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
1731	ALL	634806.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1732	ALL	634846.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1733	ALL	634886.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1734	ALL	634926.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
1735	ALL	634966.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1736	ALL	635006.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
1737	ALL	635046.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
1738	ALL	635126.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
1739	ALL	635206.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
1740	ALL	635246.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-05
1741	ALL	635326.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
1742	ALL	635366.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
1743	ALL	635406.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
1744	ALL	635446.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05
1745	ALL	635486.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
1746	ALL	635526.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05
1747	ALL	635566.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
1748	ALL	635606.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05
1749	ALL	635646.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05
1750	ALL	635686.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-05
1751	ALL	635846.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05
1752	ALL	635886.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
1753	ALL	636006.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
1754	ALL	636046.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05
1755	ALL	636086.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
1756	ALL	636126.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
1757	ALL	636166.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05
1758	ALL	636206.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
1759	ALL	636246.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
1760	ALL	636286.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
1761	ALL	636326.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05
1762	ALL	636366.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05
1763	ALL	636406.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05
1764	ALL	636606.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05
1765	ALL	636646.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-05
1766	ALL	636686.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
1767	ALL	636726.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
1768	ALL	636766.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05
1769	ALL	636806.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
1770	ALL	636846.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
1771	ALL	636886.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
1772	ALL	636926.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05
1773	ALL	636966.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
1774	ALL	637006.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35

1782	ALL	638166.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
1783	ALL	638206.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1784	ALL	638246.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1785	ALL	638286.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1786	ALL	638326.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
1787	ALL	638366.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1788	ALL	633366.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
1789	ALL	633406.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
1790	ALL	633446.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05
1791	ALL	633486.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05
1792	ALL	633526.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-05
1793	ALL	633566.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
1794	ALL	633646.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1795	ALL	633686.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
1796	ALL	633726.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1797	ALL	633886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1798	ALL	633926.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05
1799	ALL	633966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
1800	ALL	634006.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
1801	ALL	634046.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
1802	ALL	634086.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1803	ALL	634126.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
1804	ALL	634166.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
1805	ALL	634246.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1806	ALL	634286.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
1807	ALL	634846.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
1808	ALL	634886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
1809	ALL	634926.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
1810	ALL	634966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
1811	ALL	635006.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
1812	ALL	635126.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
1813	ALL	635166.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
1814	ALL	635246.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
1815	ALL	635286.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
1816	ALL	635326.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
1817	ALL	635366.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05
1818	ALL	635406.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-05
1819	ALL	635446.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
1820	ALL	635486.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05
1821	ALL	635526.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
1822	ALL	635566.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-05
1823	ALL	635606.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05
1824	ALL	635766.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05
1825	ALL	635806.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05
1826	ALL	635886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05
1827	ALL	635926.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
1828	ALL	635966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
1829	ALL	636006.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05
1830	ALL	636046.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
1831	ALL	636086.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
1832	ALL	636126.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05
1833	ALL	636166.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
1834	ALL	636206.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05
1835	ALL	636246.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05
1836	ALL	636286.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1837	ALL	636326.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
1838	ALL	636366.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1839	ALL	636406.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
1840	ALL	636446.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1841	ALL	636486.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1842	ALL	636526.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1843	ALL	636566.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1844	ALL	636606.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1845	ALL	636646.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1846	ALL	636686.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1847	ALL	636726.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05
1848	ALL	636766.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05
1849	ALL	636806.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05
1850	ALL	636846.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05
1851	ALL	636886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
1852	ALL	636926.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-05
1853	ALL	636966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
1854	ALL	637006.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05
1855	ALL	637046.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
1856	ALL	637846.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1857	ALL	637886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
1858	ALL	637966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
1859	ALL	638086.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
1860	ALL	638126.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-05
1861	ALL	638166.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
1862	ALL	638206.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1863	ALL	638246.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1864	ALL	638286.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1865	ALL	638326.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1866	ALL	638366.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1867	ALL	633406.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
1868	ALL	633446.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
1869	ALL	633486.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
1870	ALL	633526.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05
1871	ALL	633566.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-05
1872	ALL	633646.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
1873	ALL	633766.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08

1881	ALL	634966.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1882	ALL	635006.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
1883	ALL	635046.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
1884	ALL	635086.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
1885	ALL	635166.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
1886	ALL	635206.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
1887	ALL	635246.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
1888	ALL	635286.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
1889	ALL	635326.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
1890	ALL	635366.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
1891	ALL	635406.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05
1892	ALL	635486.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-05
1893	ALL	635526.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05
1894	ALL	635686.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05
1895	ALL	635726.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-05
1896	ALL	635806.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05
1897	ALL	635846.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
1898	ALL	635886.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-05
1899	ALL	635926.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
1900	ALL	636006.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1901	ALL	636046.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1902	ALL	636086.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1903	ALL	636126.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1904	ALL	637846.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1905	ALL	637886.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
1906	ALL	637966.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
1907	ALL	638086.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05
1908	ALL	638126.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
1909	ALL	638166.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1910	ALL	638206.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1911	ALL	638246.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1912	ALL	638366.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1913	ALL	633406.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1914	ALL	633446.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
1915	ALL	633486.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
1916	ALL	633526.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
1917	ALL	633766.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05
1918	ALL	633806.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1919	ALL	633886.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1920	ALL	633926.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05
1921	ALL	633966.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
1922	ALL	634006.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05
1923	ALL	634046.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
1924	ALL	634966.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
1925	ALL	635006.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1926	ALL	635126.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
1927	ALL	635166.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
1928	ALL	635206.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
1929	ALL	635246.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05
1930	ALL	635286.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-05
1931	ALL	635326.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
1932	ALL	635406.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05
1933	ALL	635446.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
1934	ALL	635606.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1935	ALL	635646.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1936	ALL	635686.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1937	ALL	635726.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1938	ALL	635766.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05
1939	ALL	635806.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
1940	ALL	635846.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
1941	ALL	635886.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1942	ALL	635926.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1943	ALL	637846.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
1944	ALL	637886.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1945	ALL	637966.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05
1946	ALL	638086.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-05
1947	ALL	638126.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
1948	ALL	638166.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
1949	ALL	638206.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1950	ALL	638326.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1951	ALL	638366.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1952	ALL	633406.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
1953	ALL	633446.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
1954	ALL	633486.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
1955	ALL	633806.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
1956	ALL	633926.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
1957	ALL	633966.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
1958	ALL	634126.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
1959	ALL	634166.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
1960	ALL	634206.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
1961	ALL	634246.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
1962	ALL	634286.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-05
1963	ALL	634326.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
1964	ALL	634366.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
1965	ALL	634406.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1966	ALL	634446.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1967	ALL	635006.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
1968	ALL	635166.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05
1969	ALL	635206.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-05
1970	ALL	635246.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
1971	ALL	635326.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
1972	ALL	635366.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83

1980	ALL	635806.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1981	ALL	635846.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
1982	ALL	637846.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1983	ALL	637886.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
1984	ALL	637966.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
1985	ALL	638086.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05
1986	ALL	638126.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
1987	ALL	638166.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
1988	ALL	638206.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1989	ALL	638286.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1990	ALL	638326.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1991	ALL	638366.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1992	ALL	633406.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
1993	ALL	633446.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1994	ALL	633486.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
1995	ALL	633526.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
1996	ALL	633766.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05
1997	ALL	633806.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05
1998	ALL	633846.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
1999	ALL	634086.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05
2000	ALL	634126.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
2001	ALL	634166.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
2002	ALL	634206.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
2003	ALL	634246.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
2004	ALL	634286.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
2005	ALL	634326.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
2006	ALL	634366.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
2007	ALL	634406.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
2008	ALL	634446.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
2009	ALL	634486.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
2010	ALL	634526.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
2011	ALL	634566.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
2012	ALL	635446.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
2013	ALL	635486.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
2014	ALL	635526.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
2015	ALL	635566.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
2016	ALL	635606.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
2017	ALL	635646.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
2018	ALL	635686.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
2019	ALL	635726.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2020	ALL	635766.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
2021	ALL	633446.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
2022	ALL	633486.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
2023	ALL	633526.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-05
2024	ALL	633646.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
2025	ALL	633686.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
2026	ALL	633726.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05
2027	ALL	633766.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
2028	ALL	633806.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05
2029	ALL	634046.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05
2030	ALL	634086.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
2031	ALL	634126.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
2032	ALL	634166.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
2033	ALL	634206.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
2034	ALL	634246.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
2035	ALL	634286.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
2036	ALL	634326.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
2037	ALL	634366.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
2038	ALL	634406.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
2039	ALL	634446.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
2040	ALL	634486.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
2041	ALL	634526.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
2042	ALL	634566.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
2043	ALL	634606.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
2044	ALL	634646.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
2045	ALL	635086.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
2046	ALL	635126.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05
2047	ALL	635166.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-05
2048	ALL	635206.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
2049	ALL	635366.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2050	ALL	635406.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
2051	ALL	635446.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
2052	ALL	635486.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
2053	ALL	635526.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
2054	ALL	635566.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
2055	ALL	635606.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
2056	ALL	635646.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
2057	ALL	635686.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
2058	ALL	638046.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
2059	ALL	638086.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05
2060	ALL	638126.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-05
2061	ALL	638166.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-05
2062	ALL	638206.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
2063	ALL	638246.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
2064	ALL	638286.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
2065	ALL	638326.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
2066	ALL	638366.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
2067	ALL	633446.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
2068	ALL	633486.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
2069	ALL	633526.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
2070	ALL	633566.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-05
2071	ALL	633606.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05
2072	ALL	633646.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2073	ALL	634046.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2074	ALL	634086.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05
2075	ALL	634126.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
2076	ALL	634166.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2079	ALL	634286.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
2080	ALL	634326.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
2081	ALL	634366.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
2082	ALL	634406.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
2083	ALL	634446.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
2084	ALL	634486.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
2085	ALL	634526.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
2086	ALL	634566.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
2087	ALL	634606.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
2088	ALL	634646.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
2089	ALL	634686.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
2090	ALL	635086.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
2091	ALL	635126.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05
2092	ALL	635166.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05
2093	ALL	635286.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
2094	ALL	635326.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
2095	ALL	635366.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
2096	ALL	635406.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
2097	ALL	635446.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
2098	ALL	635486.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2099	ALL	635526.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
2100	ALL	635566.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
2101	ALL	635606.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
2102	ALL	635646.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
2103	ALL	638046.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
2104	ALL	638086.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05
2105	ALL	638126.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
2106	ALL	638166.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05
2107	ALL	638206.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
2108	ALL	638246.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
2109	ALL	638286.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
2110	ALL	638326.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
2111	ALL	638366.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
2112	ALL	634126.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-05
2113	ALL	634166.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
2114	ALL	634206.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
2115	ALL	634246.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
2116	ALL	634286.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
2117	ALL	634326.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
2118	ALL	634366.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
2119	ALL	634406.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
2120	ALL	634446.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
2121	ALL	634486.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
2122	ALL	634526.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
2123	ALL	634566.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-05
2124	ALL	634606.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
2125	ALL	634646.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
2126	ALL	634686.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
2127	ALL	634726.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-05
2128	ALL	635206.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05
2129	ALL	635246.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2130	ALL	635286.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
2131	ALL	635326.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
2132	ALL	635366.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
2133	ALL	635406.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2134	ALL	635446.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
2135	ALL	635486.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
2136	ALL	635526.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
2137	ALL	635566.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-04
2138	ALL	638046.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
2139	ALL	638086.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
2140	ALL	638126.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
2141	ALL	638166.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
2142	ALL	638206.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
2143	ALL	638246.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
2144	ALL	638286.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
2145	ALL	638326.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
2146	ALL	638366.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
2147	ALL	634166.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
2148	ALL	634206.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
2149	ALL	634246.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
2150	ALL	634286.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
2151	ALL	634326.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
2152	ALL	634366.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
2153	ALL	634406.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
2154	ALL	634446.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
2155	ALL	634486.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
2156	ALL	634526.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
2157	ALL	634566.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
2158	ALL	634606.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
2159	ALL	634646.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
2160	ALL	634686.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
2161	ALL	634726.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
2162	ALL	634766.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
2163	ALL	635166.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05
2164	ALL	635206.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2165	ALL	635246.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
2166	ALL	635286.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
2167	ALL	635326.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
2168	ALL	635366.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2169	ALL	635406.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
2170	ALL	635446.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89

2178	ALL	638326.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
2179	ALL	638366.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
2180	ALL	634246.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
2181	ALL	634286.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
2182	ALL	634326.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
2183	ALL	634366.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
2184	ALL	634406.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
2185	ALL	634446.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
2186	ALL	634486.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-05
2187	ALL	634526.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
2188	ALL	634566.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
2189	ALL	634606.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05
2190	ALL	634646.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-05
2191	ALL	634686.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
2192	ALL	634726.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
2193	ALL	634766.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-05
2194	ALL	634806.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
2195	ALL	635166.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
2196	ALL	635206.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
2197	ALL	635246.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
2198	ALL	635286.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
2199	ALL	635326.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
2200	ALL	635366.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
2201	ALL	635406.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
2202	ALL	635446.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-04
2203	ALL	638046.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
2204	ALL	638086.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05
2205	ALL	638126.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
2206	ALL	638166.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
2207	ALL	633726.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
2208	ALL	634406.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05
2209	ALL	634446.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05
2210	ALL	634486.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
2211	ALL	634526.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05
2212	ALL	634566.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-05
2213	ALL	634606.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
2214	ALL	634646.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
2215	ALL	634686.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05
2216	ALL	634726.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
2217	ALL	634766.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
2218	ALL	634806.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05
2219	ALL	634846.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05
2220	ALL	635046.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
2221	ALL	635086.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05
2222	ALL	635206.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
2223	ALL	635246.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2224	ALL	635286.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
2225	ALL	635326.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
2226	ALL	635366.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-04
2227	ALL	635406.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04
2228	ALL	638046.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
2229	ALL	638086.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05
2230	ALL	638126.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
2231	ALL	638166.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
2232	ALL	638206.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
2233	ALL	638246.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
2234	ALL	638286.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
2235	ALL	638326.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
2236	ALL	638366.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
2237	ALL	634686.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05
2238	ALL	634726.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05
2239	ALL	634766.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05
2240	ALL	634806.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-05
2241	ALL	634846.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
2242	ALL	635006.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05
2243	ALL	635046.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
2244	ALL	635126.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
2245	ALL	635166.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
2246	ALL	635206.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2247	ALL	635246.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
2248	ALL	635286.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
2249	ALL	635326.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
2250	ALL	635366.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04
2251	ALL	638126.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
2252	ALL	638166.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
2253	ALL	638206.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
2254	ALL	638246.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
2255	ALL	638286.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
2256	ALL	638326.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
2257	ALL	638366.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
2258	ALL	635006.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
2259	ALL	635046.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
2260	ALL	635086.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
2261	ALL	635126.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
2262	ALL	635166.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2263	ALL	635206.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
2264	ALL	635246.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
2265	ALL	635286.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-04
2266	ALL	635326.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04
2267	ALL	638126.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
2268	ALL	638166.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
2269	ALL	638206.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36

2277	ALL	635166.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
2278	ALL	635206.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
2279	ALL	635246.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
2280	ALL	635286.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04
2281	ALL	638126.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
2282	ALL	638166.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05
2283	ALL	638206.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
2284	ALL	638246.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
2285	ALL	638286.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
2286	ALL	638326.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
2287	ALL	638366.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
2288	ALL	635126.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
2289	ALL	635166.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
2290	ALL	635206.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04
2291	ALL	635246.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-04
2292	ALL	638206.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
2293	ALL	638246.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
2294	ALL	638286.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
2295	ALL	638326.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
2296	ALL	638366.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
2297	ALL	635166.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-04
2298	ALL	635206.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04
2299	ALL	638046.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
2300	ALL	638086.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05
2301	ALL	638126.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
2302	ALL	638166.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
2303	ALL	638206.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
2304	ALL	638246.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
2305	ALL	638286.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
2306	ALL	638326.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
2307	ALL	638366.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
2308	ALL	638046.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2309	ALL	638086.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-05
2310	ALL	638126.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
2311	ALL	638166.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
2312	ALL	638206.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
2313	ALL	638246.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
2314	ALL	638286.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
2315	ALL	638326.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
2316	ALL	638366.2	4272032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
2317	ALL	638046.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
2318	ALL	638086.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
2319	ALL	638126.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-05
2320	ALL	638166.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
2321	ALL	638206.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
2322	ALL	638246.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
2323	ALL	638286.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
2324	ALL	638326.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
2325	ALL	638366.2	4272072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
2326	ALL	633966.2	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
2327	ALL	638046.2	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
2328	ALL	638086.2	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-05
2329	ALL	638126.2	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
2330	ALL	638286.2	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
2331	ALL	638326.2	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
2332	ALL	638366.2	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
2333	ALL	638286.2	4272152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
2334	ALL	638326.2	4272152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
2335	ALL	638366.2	4272152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
2336	ALL	638286.2	4272192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
2337	ALL	638326.2	4272192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
2338	ALL	638366.2	4272192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
2339	ALL	634966.2	4272232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04
2340	ALL	638286.2	4272232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
2341	ALL	638326.2	4272232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
2342	ALL	638366.2	4272232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
2343	ALL	634966.2	4272272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04
2344	ALL	638286.2	4272272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
2345	ALL	638326.2	4272272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
2346	ALL	638366.2	4272272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
2347	ALL	634926.2	4272312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
2348	ALL	634966.2	4272312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-04
2349	ALL	638286.2	4272312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
2350	ALL	638326.2	4272312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
2351	ALL	638366.2	4272312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
2352	ALL	638126.2	4272392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
2353	ALL	638166.2	4272392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
2354	ALL	638206.2	4272392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
2355	ALL	638246.2	4272392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
2356	ALL	638286.2	4272392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
2357	ALL	638326.2	4272392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
2358	ALL	638366.2	4272392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
2359	ALL	638126.2	4272432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
2360	ALL	638166.2	4272432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
2361	ALL	638206.2	4272432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
2362	ALL	638246.2	4272432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
2363	ALL	638286.2	4272432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
2364	ALL	638326.2	4272432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
2365	ALL	638366.2	4272432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
2366	ALL	638126.2	4272472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
2367	ALL	638166.2	4272472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
2368	ALL	638206.2	4272472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
2369	ALL	638246.2	4272472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
2370	ALL	638286.2	4272472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
2371	ALL	638326.2	4272472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
2372	ALL	638366.2	4272472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
2373	ALL	638126.2	4272512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2376	ALL	638246.2	4272512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
2377	ALL	638286.2	4272512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
2378	ALL	638326.2	4272512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
2379	ALL	638366.2	4272512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
2380	ALL	638126.2	4272552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
2381	ALL	638166.2	4272552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
2382	ALL	638206.2	4272552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
2383	ALL	638246.2	4272552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
2384	ALL	638326.2	4272552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
2385	ALL	638366.2	4272552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
2386	ALL	638046.2	4272592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
2387	ALL	638086.2	4272592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
2388	ALL	638126.2	4272592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
2389	ALL	638166.2	4272592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
2390	ALL	638206.2	4272592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
2391	ALL	638246.2	4272592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
2392	ALL	638326.2	4272592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
2393	ALL	638366.2	4272592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
2394	ALL	638046.2	4272632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
2395	ALL	638086.2	4272632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
2396	ALL	638126.2	4272632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
2397	ALL	638166.2	4272632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
2398	ALL	638206.2	4272632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
2399	ALL	638246.2	4272632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
2400	ALL	638326.2	4272632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
2401	ALL	638366.2	4272632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
2402	ALL	638046.2	4272672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
2403	ALL	638086.2	4272672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
2404	ALL	638126.2	4272672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
2405	ALL	638166.2	4272672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
2406	ALL	638206.2	4272672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
2407	ALL	638246.2	4272672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
2408	ALL	638326.2	4272672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
2409	ALL	638366.2	4272672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
2410	ALL	638046.2	4272712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
2411	ALL	638086.2	4272712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
2412	ALL	638126.2	4272712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
2413	ALL	638166.2	4272712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
2414	ALL	638206.2	4272712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
2415	ALL	638246.2	4272712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
2416	ALL	638326.2	4272712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
2417	ALL	638366.2	4272712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2418	ALL	638046.2	4272752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
2419	ALL	638086.2	4272752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
2420	ALL	638126.2	4272752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
2421	ALL	638166.2	4272752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
2422	ALL	638206.2	4272752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
2423	ALL	638246.2	4272752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
2424	ALL	638326.2	4272752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
2425	ALL	638366.2	4272752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
2426	ALL	638206.2	4272792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
2427	ALL	638246.2	4272792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
2428	ALL	638326.2	4272792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
2429	ALL	638366.2	4272792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
2430	ALL	638206.2	4272832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
2431	ALL	638246.2	4272832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
2432	ALL	638326.2	4272832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
2433	ALL	638366.2	4272832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
2434	ALL	638246.2	4272872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
2435	ALL	638326.2	4272872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
2436	ALL	638366.2	4272872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
2437	ALL	638246.2	4272912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
2438	ALL	638326.2	4272912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
2439	ALL	638366.2	4272912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2440	ALL	638246.2	4272952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
2441	ALL	638326.2	4272952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
2442	ALL	638366.2	4272952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
2443	ALL	638126.2	4272992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
2444	ALL	638166.2	4272992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
2445	ALL	638206.2	4272992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2446	ALL	638246.2	4272992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
2447	ALL	638326.2	4272992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
2448	ALL	638366.2	4272992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2449	ALL	638046.2	4273032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
2450	ALL	638086.2	4273032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
2451	ALL	638126.2	4273032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
2452	ALL	638166.2	4273032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2453	ALL	638206.2	4273032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
2454	ALL	638246.2	4273032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
2455	ALL	638326.2	4273032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
2456	ALL	638366.2	4273032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
2457	ALL	638046.2	4273072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
2458	ALL	638086.2	4273072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
2459	ALL	638126.2	4273072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
2460	ALL	638166.2	4273072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
2461	ALL	638206.2	4273072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
2462	ALL	638246.2	4273072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
2463	ALL	638326.2	4273072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2464	ALL	638366.2	4273072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06
2465	ALL	635886.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
2466	ALL	635926.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
2467	ALL	635966.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45

2475	ALL	636286.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05
2476	ALL	636326.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
2477	ALL	637366.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2478	ALL	638046.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
2479	ALL	638086.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
2480	ALL	638126.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
2481	ALL	638166.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
2482	ALL	638206.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
2483	ALL	638246.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
2484	ALL	638326.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
2485	ALL	638366.2	4273112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06
2486	ALL	635806.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
2487	ALL	635846.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
2488	ALL	635886.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05
2489	ALL	635926.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-05
2490	ALL	635966.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
2491	ALL	636006.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
2492	ALL	636046.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
2493	ALL	636086.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05
2494	ALL	636126.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05
2495	ALL	636166.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-05
2496	ALL	636206.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05
2497	ALL	636246.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05
2498	ALL	636286.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
2499	ALL	636326.2	4273152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
2500	ALL	635726.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
2501	ALL	635766.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05
2502	ALL	635806.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
2503	ALL	635846.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05
2504	ALL	635886.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
2505	ALL	635926.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05
2506	ALL	635966.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05
2507	ALL	636006.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-05
2508	ALL	636046.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
2509	ALL	636086.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
2510	ALL	636126.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
2511	ALL	636166.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
2512	ALL	636206.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
2513	ALL	636246.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
2514	ALL	636286.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
2515	ALL	636326.2	4273192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-05
2516	ALL	635606.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
2517	ALL	635646.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
2518	ALL	635686.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
2519	ALL	635726.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
2520	ALL	635766.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05
2521	ALL	635806.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
2522	ALL	635846.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
2523	ALL	635886.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
2524	ALL	635926.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05
2525	ALL	635966.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
2526	ALL	636006.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
2527	ALL	636046.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-05
2528	ALL	636086.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
2529	ALL	636126.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
2530	ALL	636166.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
2531	ALL	636206.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
2532	ALL	636246.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
2533	ALL	636286.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
2534	ALL	636326.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-05
2535	ALL	636366.2	4273232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
2536	ALL	635606.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
2537	ALL	635646.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05
2538	ALL	635686.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05
2539	ALL	635726.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05
2540	ALL	635766.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
2541	ALL	635806.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-05
2542	ALL	635846.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-05
2543	ALL	635886.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05
2544	ALL	635926.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
2545	ALL	635966.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
2546	ALL	636006.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
2547	ALL	636046.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
2548	ALL	636086.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
2549	ALL	636126.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
2550	ALL	636166.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
2551	ALL	636206.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
2552	ALL	636246.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
2553	ALL	636286.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
2554	ALL	636326.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
2555	ALL	636366.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
2556	ALL	636406.2	4273272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
2557	ALL	635646.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
2558	ALL	635686.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
2559	ALL	635726.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-05
2560	ALL	635766.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-05
2561	ALL	635806.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05
2562	ALL	635846.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
2563	ALL	635886.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-05
2564	ALL	635926.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
2565	ALL	635966.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
2566	ALL	636006.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
2567	ALL	636046.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
2568	ALL	636086.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
2569	ALL	636126.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
2570	ALL	636166.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
2571	ALL	636206.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2574	ALL	636326.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
2575	ALL	636366.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
2576	ALL	636406.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
2577	ALL	636446.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
2578	ALL	636486.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
2579	ALL	638206.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2580	ALL	638246.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06
2581	ALL	638286.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06
2582	ALL	638326.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06
2583	ALL	638366.2	4273312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06
2584	ALL	635686.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05
2585	ALL	635726.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
2586	ALL	635766.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
2587	ALL	635806.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
2588	ALL	635846.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
2589	ALL	635886.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05
2590	ALL	635926.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
2591	ALL	635966.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
2592	ALL	636006.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
2593	ALL	636046.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
2594	ALL	636086.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
2595	ALL	636126.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
2596	ALL	636166.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
2597	ALL	636206.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
2598	ALL	636246.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
2599	ALL	636286.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
2600	ALL	636326.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
2601	ALL	636366.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
2602	ALL	636406.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
2603	ALL	636446.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
2604	ALL	636486.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
2605	ALL	636526.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
2606	ALL	636566.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
2607	ALL	636606.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
2608	ALL	638206.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06
2609	ALL	638246.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-06
2610	ALL	638286.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-06
2611	ALL	638326.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-06
2612	ALL	638366.2	4273352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06
2613	ALL	635766.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
2614	ALL	635806.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
2615	ALL	635846.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05
2616	ALL	635886.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
2617	ALL	635926.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
2618	ALL	635966.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
2619	ALL	636006.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
2620	ALL	636046.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
2621	ALL	636086.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
2622	ALL	636126.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
2623	ALL	636166.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
2624	ALL	636206.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
2625	ALL	636246.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
2626	ALL	636286.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
2627	ALL	636326.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
2628	ALL	636366.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
2629	ALL	636406.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
2630	ALL	636446.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
2631	ALL	636486.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
2632	ALL	636526.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
2633	ALL	636566.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
2634	ALL	636606.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
2635	ALL	636646.2	4273392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
2636	ALL	635806.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
2637	ALL	635846.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
2638	ALL	635886.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
2639	ALL	635926.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
2640	ALL	635966.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
2641	ALL	636006.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
2642	ALL	636046.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
2643	ALL	636086.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
2644	ALL	636126.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
2645	ALL	636166.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
2646	ALL	636206.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
2647	ALL	636246.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
2648	ALL	636286.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
2649	ALL	636326.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
2650	ALL	636366.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
2651	ALL	636406.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
2652	ALL	636446.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
2653	ALL	636486.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
2654	ALL	636526.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
2655	ALL	636566.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
2656	ALL	636606.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
2657	ALL	636646.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
2658	ALL	636686.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
2659	ALL	638006.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
2660	ALL	638046.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
2661	ALL	638086.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2662	ALL	638126.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-06
2663	ALL	638166.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-06
2664	ALL	638206.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-06
2665	ALL	638246.2	4273432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17

2673 ALL	636006.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
2674 ALL	636046.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
2675 ALL	636086.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
2676 ALL	636126.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
2677 ALL	636166.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
2678 ALL	636206.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
2679 ALL	636246.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
2680 ALL	636286.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
2681 ALL	636326.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
2682 ALL	636366.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
2683 ALL	636406.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
2684 ALL	636446.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
2685 ALL	636606.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
2686 ALL	636646.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
2687 ALL	636686.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
2688 ALL	636726.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
2689 ALL	637606.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
2690 ALL	637646.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
2691 ALL	637686.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
2692 ALL	637726.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
2693 ALL	637766.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
2694 ALL	638006.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2695 ALL	638046.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
2696 ALL	638086.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
2697 ALL	638126.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06
2698 ALL	638166.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-06
2699 ALL	638206.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06
2700 ALL	638246.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06
2701 ALL	638286.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06
2702 ALL	638326.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06
2703 ALL	638366.2	4273472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-06
2704 ALL	635926.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
2705 ALL	635966.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
2706 ALL	636006.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
2707 ALL	636046.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
2708 ALL	636086.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
2709 ALL	636126.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
2710 ALL	636166.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
2711 ALL	636206.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
2712 ALL	636246.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
2713 ALL	636286.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
2714 ALL	636326.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
2715 ALL	636366.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
2716 ALL	636646.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
2717 ALL	636686.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
2718 ALL	636726.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
2719 ALL	637606.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
2720 ALL	637646.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
2721 ALL	637686.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
2722 ALL	637726.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
2723 ALL	637766.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
2724 ALL	638006.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
2725 ALL	638046.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2726 ALL	638086.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06
2727 ALL	638126.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-06
2728 ALL	638166.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06
2729 ALL	638206.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06
2730 ALL	638246.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-06
2731 ALL	638286.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06
2732 ALL	638326.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-06
2733 ALL	638366.2	4273512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-06
2734 ALL	636006.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
2735 ALL	636046.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
2736 ALL	636086.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
2737 ALL	636126.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
2738 ALL	636166.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
2739 ALL	636206.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
2740 ALL	636246.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
2741 ALL	636286.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
2742 ALL	636326.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
2743 ALL	636606.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
2744 ALL	636646.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
2745 ALL	636686.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
2746 ALL	637606.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
2747 ALL	637646.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
2748 ALL	637686.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
2749 ALL	637726.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
2750 ALL	637766.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
2751 ALL	637806.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
2752 ALL	637846.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2753 ALL	637886.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
2754 ALL	638006.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2755 ALL	638046.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2756 ALL	638086.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06
2757 ALL	638126.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-06
2758 ALL	638166.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06
2759 ALL	638206.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-06
2760 ALL	638246.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06
2761 ALL	638286.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
2762 ALL	638326.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06
2763 ALL	638366.2	4273552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06
2764 ALL	636086.2	4273592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
2765 ALL	636126.2	4273592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
2766 ALL	636166.2	4273592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
2767 ALL	636206.2	4273592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
2768 ALL	636246.2	4273592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
2769 ALL	636286.2	4273592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
2770 ALL	636606.2

2772	ALL	636126.2	4273632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
2773	ALL	636166.2	4273632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
2774	ALL	636206.2	4273632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
2775	ALL	636246.2	4273632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
2776	ALL	636286.2	4273632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
2777	ALL	637060.5	4271428	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
2778	ALL	637144.2	4271358	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
2779	ALL	637162.3	4271343	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
2780	ALL	637135.1	4271307	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
2781	ALL	637139.6	4271298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
2782	ALL	637089.7	4271237	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
2783	ALL	637081.2	4271244	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
2784	ALL	637067.6	4271230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
2785	ALL	637059.8	4271239	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
2786	ALL	637073.4	4271250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
2787	ALL	637066.3	4271259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
2788	ALL	637118.9	4271320	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
2789	ALL	637127.9	4271314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
2790	ALL	637148.7	4271344	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
2791	ALL	637056.6	4271416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
2792	ALL	637022.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
2793	ALL	636978.7	4271446	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
2794	ALL	636956	4271450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
2795	ALL	636917.7	4271450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2796	ALL	636833.3	4271442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2797	ALL	636745.1	4271434	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
2798	ALL	636680.8	4271428	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
2799	ALL	636581.4	4271418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
2800	ALL	636489.3	4271410	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
2801	ALL	636414.7	4271412	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
2802	ALL	636354.7	4271415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
2803	ALL	636300.6	4271426	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
2804	ALL	636223.1	4271438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
2805	ALL	636094.4	4271457	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
2806	ALL	636012.5	4271475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
2807	ALL	635929.3	4271499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
2808	ALL	635832.8	4271537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
2809	ALL	635781.6	4271559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
2810	ALL	635723.1	4271595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
2811	ALL	635651.4	4271654	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
2812	ALL	635569.5	4271717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
2813	ALL	635497.9	4271763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
2814	ALL	635436.4	4271813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03
2815	ALL	635348.7	4271899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
2816	ALL	635268.2	4271978	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03
2817	ALL	635193.6	4272049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03
2818	ALL	635154.1	4272082	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03
2819	ALL	635102.9	4272027	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-04
2820	ALL	635079.5	4272063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04
2821	ALL	635082.5	4272094	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-04
2822	ALL	635098.5	4272123	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-03
2823	ALL	634974.2	4272202	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-04
2824	ALL	634974.2	4272285	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
2825	ALL	634930.3	4272331	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
2826	ALL	634921.6	4272321	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
2827	ALL	634928.9	4272305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
2828	ALL	634934.7	4272290	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
2829	ALL	634931.8	4272284	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
2830	ALL	634917.2	4272306	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
2831	ALL	634904	4272329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
2832	ALL	634871.5	4272349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
2833	ALL	634810	4272378	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2834	ALL	634769.1	4272390	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
2835	ALL	634694.5	4272382	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
2836	ALL	634631.6	4272373	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
2837	ALL	634552.6	4272366	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
2838	ALL	634441.4	4272325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
2839	ALL	634296.6	4272265	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2840	ALL	634129.9	4272188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
2841	ALL	634042.1	4272147	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
2842	ALL	633982.4	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
2843	ALL	633962.5	4272091	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
2844	ALL	633951.3	4272065	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
2845	ALL	633941.4	4272028	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
2846	ALL	633933.9	4272002	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
2847	ALL	633921.5	4271976	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
2848	ALL	633901.6	4271956	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
2849	ALL	633868	4271941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
2850	ALL	633827	4271932	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2851	ALL	633808.3	4271923	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
2852	ALL	633788.4	4271908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
2853	ALL	633774.8	4271891	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2854	ALL	633753.6	4271828	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
2855	ALL	633710.1	4271691	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
2856	ALL	633693.3	4271700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
2857	ALL	633765.1	4271899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
2858	ALL	633786.5	4271929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
2859	ALL	633803.3	4271938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
2860	ALL	633831.6	4271943	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
2861	ALL	633860.6	4271947	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
2862	ALL	633881.9	4271953	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
2863	ALL	633908.7	4271973	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
2864	ALL	633921.7	4271994	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
2865	ALL	633931.6	4272031	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
2866	ALL	633937.7	4272053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
2867	ALL	633918.6	4272053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
2868	ALL	633911.7	4272097	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05

2871	ALL	634056.8	4272161	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
2872	ALL	634114.1	4272190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
2873	ALL	634214.9	4272236	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
2874	ALL	634313.7	4272280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
2875	ALL	634496.1	4272359	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
2876	ALL	634555.3	4272375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
2877	ALL	634638	4272385	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
2878	ALL	634746.7	4272396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
2879	ALL	634773.2	4272395	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
2880	ALL	634790.1	4272394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
2881	ALL	634810.9	4272389	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
2882	ALL	634828.4	4272381	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
2883	ALL	634845.9	4272371	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
2884	ALL	634857.6	4272363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
2885	ALL	634873.2	4272356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
2886	ALL	634888.1	4272350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
2887	ALL	634923.2	4272339	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
2888	ALL	634929	4272338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
2889	ALL	634948.5	4272324	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04
2890	ALL	634975.1	4272301	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-04
2891	ALL	634991.3	4272270	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04
2892	ALL	635047.8	4272254	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
2893	ALL	635110.7	4272224	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
2894	ALL	635172.2	4272170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
2895	ALL	635251.2	4272096	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-03
2896	ALL	635343.3	4272006	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03
2897	ALL	635421.9	4271924	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
2898	ALL	635515.5	4271825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03
2899	ALL	635571.1	4271790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03
2900	ALL	635606.2	4271772	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04
2901	ALL	635606.2	4271733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03
2902	ALL	635629.6	4271717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-04
2903	ALL	635620.9	4271693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-04
2904	ALL	635689.4	4271635	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
2905	ALL	635729.6	4271600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04
2906	ALL	635767.6	4271576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
2907	ALL	635798.4	4271561	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
2908	ALL	635851.6	4271538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
2909	ALL	635882.7	4271524	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
2910	ALL	635911.8	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
2911	ALL	635954.5	4271499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
2912	ALL	636030.9	4271478	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
2913	ALL	636077.5	4271468	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
2914	ALL	636174.5	4271456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
2915	ALL	636228.7	4271448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
2916	ALL	636300.5	4271434	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2917	ALL	636374.6	4271422	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2918	ALL	636470.9	4271418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
2919	ALL	636535	4271420	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
2920	ALL	636617.5	4271428	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
2921	ALL	636772.2	4271443	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
2922	ALL	636825	4271449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
2923	ALL	636866.2	4271452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
2924	ALL	636909.6	4271457	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
2925	ALL	636940.2	4271459	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
2926	ALL	636961.4	4271458	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
2927	ALL	637012.1	4271446	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04

Health Risk Assessment Scenario 2: Haul Route North

Haul trucks would travel along the top of the levee crossing the paved bicycle path adjacent to the 28th and B Street Skate Park. Bicycle traffic would be controlled by a dedicated flagger during construction to prevent collisions from occurring. Haul trucks would enter the main ingress point and deliver their loads along Site 1-1 and then continue along the top of the levee east to exit at Glenn Hall Park and continue on Carlson Drive to H Street. Haul trucks would travel south along Howe Avenue to U.S. 50. This emissions scenario included 100 percent of the haul truck trips traveling south on Howe Avenue to U.S. 50.

Control Pathway

Dispersion Options

Titles

C:\Users\shaurya.johari\OneDrive - Ascent Environmental\Desktop\Proj

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours: ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Scenario2S.err

Source Pathway - Source Inputs

Source Pathway - Source Inputs

Volume Sources

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL3673	634994.79	4272245.06	8.21	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3674	635004.79	4272245.06	7.93	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3675	635014.79	4272245.06	6.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3676	635024.79	4272245.06	5.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3874	634994.79	4272235.06	8.41	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3875	635004.79	4272235.06	8.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3876	635014.79	4272235.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3877	635024.79	4272235.06	6.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3878	635034.79	4272235.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3879	635044.79	4272235.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL3880	635054.79	4272235.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4075	634994.79	4272225.06	8.60	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4076	635004.79	4272225.06	8.21	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL4077	635014.79	4272225.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4078	635024.79	4272225.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4079	635034.79	4272225.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4080	635044.79	4272225.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4081	635054.79	4272225.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4082	635064.79	4272225.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4083	635074.79	4272225.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4276	634994.79	4272215.06	8.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4277	635004.79	4272215.06	8.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4278	635014.79	4272215.06	8.37	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4279	635024.79	4272215.06	8.14	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4280	635034.79	4272215.06	7.83	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4281	635044.79	4272215.06	6.74	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL4282	635054.79	4272215.06	5.65	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4283	635064.79	4272215.06	4.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4284	635074.79	4272215.06	4.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4285	635084.79	4272215.06	3.54	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4286	635094.79	4272215.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4478	635004.79	4272205.06	9.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4479	635014.79	4272205.06	8.74	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4480	635024.79	4272205.06	8.47	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4481	635034.79	4272205.06	8.17	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4482	635044.79	4272205.06	7.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4483	635054.79	4272205.06	6.87	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4484	635064.79	4272205.06	6.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4485	635074.79	4272205.06	5.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL4486	635084.79	4272205.06	4.04	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4487	635094.79	4272205.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4488	635104.79	4272205.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4680	635014.79	4272195.06	9.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4681	635024.79	4272195.06	8.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4682	635034.79	4272195.06	8.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4683	635044.79	4272195.06	8.30	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4684	635054.79	4272195.06	8.10	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4685	635064.79	4272195.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4686	635074.79	4272195.06	6.15	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4687	635084.79	4272195.06	4.53	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4688	635094.79	4272195.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4689	635104.79	4272195.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL4690	635114.79	4272195.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4882	635024.79	4272185.06	9.12	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4883	635034.79	4272185.06	8.82	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4884	635044.79	4272185.06	8.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4885	635054.79	4272185.06	8.34	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4886	635064.79	4272185.06	8.03	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4887	635074.79	4272185.06	6.87	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4888	635084.79	4272185.06	5.72	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4889	635094.79	4272185.06	4.65	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4890	635104.79	4272185.06	4.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4891	635114.79	4272185.06	4.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL4892	635124.79	4272185.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5085	635044.79	4272175.06	8.85	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL5086	635054.79	4272175.06	8.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5087	635064.79	4272175.06	8.27	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5088	635074.79	4272175.06	7.59	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5089	635084.79	4272175.06	6.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5090	635094.79	4272175.06	6.27	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5091	635104.79	4272175.06	6.20	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5092	635114.79	4272175.06	6.14	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5093	635124.79	4272175.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5094	635134.79	4272175.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5287	635054.79	4272165.06	8.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5288	635064.79	4272165.06	8.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5289	635074.79	4272165.06	8.31	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5290	635084.79	4272165.06	8.10	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL5291	635094.79	4272165.06	7.90	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5292	635104.79	4272165.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5293	635114.79	4272165.06	7.69	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5294	635124.79	4272165.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5295	635134.79	4272165.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5296	635144.79	4272165.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5297	635154.79	4272165.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5490	635074.79	4272155.06	8.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5491	635084.79	4272155.06	8.24	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5492	635094.79	4272155.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5493	635104.79	4272155.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5494	635114.79	4272155.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5495	635124.79	4272155.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL5496	635134.79	4272155.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5497	635144.79	4272155.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5498	635154.79	4272155.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5499	635164.79	4272155.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5693	635094.79	4272145.06	8.12	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5694	635104.79	4272145.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5695	635114.79	4272145.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5696	635124.79	4272145.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5697	635134.79	4272145.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5698	635144.79	4272145.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5699	635154.79	4272145.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5700	635164.79	4272145.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5701	635174.79	4272145.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL5895	635104.79	4272135.06	8.12	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5896	635114.79	4272135.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5897	635124.79	4272135.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5898	635134.79	4272135.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5899	635144.79	4272135.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5900	635154.79	4272135.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5901	635164.79	4272135.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5902	635174.79	4272135.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL5903	635184.79	4272135.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6097	635114.79	4272125.06	8.22	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6098	635124.79	4272125.06	8.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6099	635134.79	4272125.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6100	635144.79	4272125.06	7.84	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL6101	635154.79	4272125.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6102	635164.79	4272125.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6103	635174.79	4272125.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6104	635184.79	4272125.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6105	635194.79	4272125.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6298	635114.79	4272115.06	8.42	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6299	635124.79	4272115.06	8.31	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6300	635134.79	4272115.06	8.15	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6301	635144.79	4272115.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6302	635154.79	4272115.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6303	635164.79	4272115.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6304	635174.79	4272115.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6305	635184.79	4272115.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL6306	635194.79	4272115.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6307	635204.79	4272115.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6498	635104.79	4272105.06	8.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6499	635114.79	4272105.06	8.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6500	635124.79	4272105.06	8.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6501	635134.79	4272105.06	8.31	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6502	635144.79	4272105.06	8.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6503	635154.79	4272105.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6504	635164.79	4272105.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6505	635174.79	4272105.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6506	635184.79	4272105.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6507	635194.79	4272105.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6508	635204.79	4272105.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL6509	635214.79	4272105.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6699	635104.79	4272095.06	8.89	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6700	635114.79	4272095.06	8.76	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6701	635124.79	4272095.06	8.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6702	635134.79	4272095.06	8.41	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6703	635144.79	4272095.06	8.21	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6704	635154.79	4272095.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6705	635164.79	4272095.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6706	635174.79	4272095.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6707	635184.79	4272095.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6708	635194.79	4272095.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6709	635204.79	4272095.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6710	635214.79	4272095.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL6711	635224.79	4272095.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6900	635104.79	4272085.06	9.06	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6901	635114.79	4272085.06	8.89	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6902	635124.79	4272085.06	8.72	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6903	635134.79	4272085.06	8.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6907	635174.79	4272085.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6908	635184.79	4272085.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6909	635194.79	4272085.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6910	635204.79	4272085.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6911	635214.79	4272085.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6912	635224.79	4272085.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL6913	635234.79	4272085.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7101	635104.79	4272075.06	9.23	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL7102	635114.79	4272075.06	9.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7103	635124.79	4272075.06	8.82	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7109	635184.79	4272075.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7110	635194.79	4272075.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7111	635204.79	4272075.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7112	635214.79	4272075.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7113	635224.79	4272075.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7114	635234.79	4272075.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7115	635244.79	4272075.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7302	635104.79	4272065.06	9.29	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7303	635114.79	4272065.06	9.06	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7311	635194.79	4272065.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7312	635204.79	4272065.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL7313	635214.79	4272065.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7314	635224.79	4272065.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7315	635234.79	4272065.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7316	635244.79	4272065.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7317	635254.79	4272065.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7513	635204.79	4272055.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7514	635214.79	4272055.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7515	635224.79	4272055.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7516	635234.79	4272055.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7517	635244.79	4272055.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7518	635254.79	4272055.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7519	635264.79	4272055.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7716	635224.79	4272045.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL7717	635234.79	4272045.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7718	635244.79	4272045.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7719	635254.79	4272045.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7720	635264.79	4272045.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7721	635274.79	4272045.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7918	635234.79	4272035.06	7.84	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7919	635244.79	4272035.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7920	635254.79	4272035.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7921	635264.79	4272035.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7922	635274.79	4272035.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL7923	635284.79	4272035.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8120	635244.79	4272025.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8121	635254.79	4272025.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL8122	635264.79	4272025.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8123	635274.79	4272025.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8124	635284.79	4272025.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8125	635294.79	4272025.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8322	635254.79	4272015.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8323	635264.79	4272015.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8324	635274.79	4272015.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8325	635284.79	4272015.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8326	635294.79	4272015.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8327	635304.79	4272015.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8524	635264.79	4272005.06	7.94	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8525	635274.79	4272005.06	7.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8526	635284.79	4272005.06	6.64	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL8527	635294.79	4272005.06	5.55	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8528	635304.79	4272005.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8529	635314.79	4272005.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8726	635274.79	4271995.06	7.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8727	635284.79	4271995.06	7.32	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8728	635294.79	4271995.06	6.67	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8729	635304.79	4271995.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8730	635314.79	4271995.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8731	635324.79	4271995.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8928	635284.79	4271985.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8929	635294.79	4271985.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8930	635304.79	4271985.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8931	635314.79	4271985.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL8932	635324.79	4271985.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL8933	635334.79	4271985.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9130	635294.79	4271975.06	8.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9131	635304.79	4271975.06	7.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9132	635314.79	4271975.06	6.68	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9133	635324.79	4271975.06	5.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9134	635334.79	4271975.06	4.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9135	635344.79	4271975.06	4.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9332	635304.79	4271965.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9333	635314.79	4271965.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9334	635324.79	4271965.06	6.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9335	635334.79	4271965.06	6.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9336	635344.79	4271965.06	5.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL9337	635354.79	4271965.06	4.04	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9534	635314.79	4271955.06	8.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9535	635324.79	4271955.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9536	635334.79	4271955.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9537	635344.79	4271955.06	6.15	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9538	635354.79	4271955.06	4.53	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9539	635364.79	4271955.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9736	635324.79	4271945.06	8.15	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9737	635334.79	4271945.06	7.93	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9738	635344.79	4271945.06	6.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9739	635354.79	4271945.06	5.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9740	635364.79	4271945.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9741	635374.79	4271945.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL9938	635334.79	4271935.06	8.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9939	635344.79	4271935.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9940	635354.79	4271935.06	6.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9941	635364.79	4271935.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9942	635374.79	4271935.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL9943	635384.79	4271935.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10140	635344.79	4271925.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10141	635354.79	4271925.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10142	635364.79	4271925.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10143	635374.79	4271925.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10144	635384.79	4271925.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10145	635394.79	4271925.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10342	635354.79	4271915.06	8.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL10343	635364.79	4271915.06	7.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10344	635374.79	4271915.06	6.64	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10345	635384.79	4271915.06	5.55	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10346	635394.79	4271915.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10347	635404.79	4271915.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10544	635364.79	4271905.06	7.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10545	635374.79	4271905.06	7.32	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10546	635384.79	4271905.06	6.67	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10547	635394.79	4271905.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10548	635404.79	4271905.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10549	635414.79	4271905.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10746	635374.79	4271895.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10747	635384.79	4271895.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL10748	635394.79	4271895.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10749	635404.79	4271895.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10750	635414.79	4271895.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10751	635424.79	4271895.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10948	635384.79	4271885.06	8.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10949	635394.79	4271885.06	7.73	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10950	635404.79	4271885.06	6.64	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10951	635414.79	4271885.06	5.55	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10952	635424.79	4271885.06	4.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL10953	635434.79	4271885.06	4.01	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11150	635394.79	4271875.06	7.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11151	635404.79	4271875.06	7.32	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11152	635414.79	4271875.06	6.67	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL11153	635424.79	4271875.06	5.99	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11154	635434.79	4271875.06	4.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11155	635444.79	4271875.06	3.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11352	635404.79	4271865.06	8.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11353	635414.79	4271865.06	7.79	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11354	635424.79	4271865.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11355	635434.79	4271865.06	5.96	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11356	635444.79	4271865.06	4.44	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11357	635454.79	4271865.06	3.05	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11554	635414.79	4271855.06	7.97	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11555	635424.79	4271855.06	7.63	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11556	635434.79	4271855.06	6.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11557	635444.79	4271855.06	5.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL11558	635454.79	4271855.06	4.55	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11559	635464.79	4271855.06	4.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11756	635424.79	4271845.06	7.77	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11757	635434.79	4271845.06	7.19	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11758	635444.79	4271845.06	6.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11759	635454.79	4271845.06	6.07	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11760	635464.79	4271845.06	6.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11761	635474.79	4271845.06	5.94	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11958	635434.79	4271835.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11959	635444.79	4271835.06	7.70	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11960	635454.79	4271835.06	7.59	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11961	635464.79	4271835.06	7.49	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL11962	635474.79	4271835.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL11963	635484.79	4271835.06	7.18	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12160	635444.79	4271825.06	7.78	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12161	635454.79	4271825.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12162	635464.79	4271825.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12163	635474.79	4271825.06	7.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12164	635484.79	4271825.06	7.33	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12165	635494.79	4271825.06	6.35	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12362	635454.79	4271815.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12363	635464.79	4271815.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12364	635474.79	4271815.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12365	635484.79	4271815.06	7.47	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12366	635494.79	4271815.06	6.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12367	635504.79	4271815.06	6.38	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL12564	635464.79	4271805.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12565	635474.79	4271805.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12566	635484.79	4271805.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12567	635494.79	4271805.06	7.50	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12568	635504.79	4271805.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12569	635514.79	4271805.06	7.29	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12766	635474.79	4271795.06	7.78	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12767	635484.79	4271795.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12768	635494.79	4271795.06	7.65	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12769	635504.79	4271795.06	7.58	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12770	635514.79	4271795.06	7.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12771	635524.79	4271795.06	7.41	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12772	635534.79	4271795.06	7.30	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL12969	635494.79	4271785.06	7.78	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12970	635504.79	4271785.06	7.75	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12971	635514.79	4271785.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12972	635524.79	4271785.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12973	635534.79	4271785.06	7.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL12974	635544.79	4271785.06	7.37	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13171	635504.79	4271775.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13172	635514.79	4271775.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13173	635524.79	4271775.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13174	635534.79	4271775.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13175	635544.79	4271775.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13176	635554.79	4271775.06	7.50	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13177	635564.79	4271775.06	7.39	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL13373	635514.79	4271765.06	8.11	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13374	635524.79	4271765.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13375	635534.79	4271765.06	7.84	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13376	635544.79	4271765.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13377	635554.79	4271765.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13378	635564.79	4271765.06	7.51	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13379	635574.79	4271765.06	7.34	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13380	635584.79	4271765.06	6.38	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13576	635534.79	4271755.06	7.98	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13577	635544.79	4271755.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13578	635554.79	4271755.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13579	635564.79	4271755.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13580	635574.79	4271755.06	7.48	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL13581	635584.79	4271755.06	7.00	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13582	635594.79	4271755.06	6.52	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13778	635544.79	4271745.06	7.92	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13779	635554.79	4271745.06	7.81	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13780	635564.79	4271745.06	7.71	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13781	635574.79	4271745.06	7.62	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13782	635584.79	4271745.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13783	635594.79	4271745.06	7.61	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13980	635554.79	4271735.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13981	635564.79	4271735.06	7.91	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13982	635574.79	4271735.06	7.82	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13983	635584.79	4271735.06	7.78	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL13984	635594.79	4271735.06	7.75	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

AERMOD

Source Type	Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation (Optional)	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dim. [m]	Initial Vertical Dim. [m]
VOLUME	VOL14183	635574.79	4271725.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL14184	635584.79	4271725.06	7.95	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL14185	635594.79	4271725.06	7.88	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL14385	635584.79	4271715.06	8.12	1.50	0.00253	9.98	Surface-Based	2.32	2.32
VOLUME	VOL14386	635594.79	4271715.06	8.02	1.50	0.00253	9.98	Surface-Based	2.32	2.32

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: NS_SLINE1

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000		635609.79	4271691.39	7.95	0.00
			635651.49	4271657.81	7.91	0.00
			635680.48	4271632.58	7.93	0.00
			635723.67	4271597.81	7.94	0.00
			635763.46	4271573.14	8.16	0.00
			635788.46	4271560.24	7.93	0.00
			635848.71	4271535.56	7.92	0.00
			635902.70	4271513.69	7.94	0.00
			635994.20	4271486.22	7.94	0.00
			636060.70	4271471.08	7.91	0.00
			636111.64	4271461.74	7.71	0.00
			636165.80	4271455.14	7.95	0.00
			636228.65	4271445.91	7.94	0.00
			636277.46	4271437.99	7.92	0.00
			636316.24	4271430.73	7.92	0.00
			636376.42	4271421.49	7.95	0.00
			636419.88	4271418.86	7.93	0.00
			636494.77	4271418.20	8.01	0.00
			636591.06	4271425.45	9.14	0.00
			636658.59	4271432.05	9.14	0.00
			636733.48	4271440.63	9.14	0.00
			636791.65	4271445.25	9.14	0.00
			636873.90	4271452.50	9.14	0.00
			636920.70	4271457.12	9.17	0.00
			636956.81	4271458.44	9.45	0.00
			636992.25	4271452.50	9.77	0.00
			637020.75	4271442.95	9.77	0.00
			637063.55	4271425.80	10.36	0.00
			637098.99	4271399.41	10.03	0.00
			637138.44	4271366.42	9.75	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: NS_SLINE1

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000		637162.51	4271347.95	9.75	0.00
			637091.63	4271257.56	9.59	0.00
			637030.78	4271186.96	9.31	0.00
			636988.54	4271127.79	9.21	0.00
			636939.49	4271073.91	9.21	0.00
			636851.58	4270969.14	9.45	0.00
			636748.21	4270842.42	9.15	0.00
			636695.15	4270778.00	9.14	0.00
			636618.95	4270689.75	9.14	0.00
			636610.26	4270679.19	9.14	0.00
			636596.21	4270652.79	9.14	0.00
			636588.85	4270637.61	9.29	0.00
			636582.84	4270622.44	9.65	0.00
			636574.81	4270596.04	10.52	0.00
			636571.46	4270578.22	10.66	0.00
			636566.11	4270553.14	10.38	0.00
			636562.77	4270514.87	10.37	0.00
			636560.90	4270478.85	10.37	0.00
			636565.26	4270453.06	10.36	0.00
			636578.33	4270404.71	10.67	0.00
			636600.11	4270349.90	10.67	0.00
			636622.98	4270317.66	10.67	0.00
			636651.29	4270288.65	10.67	0.00
			636668.21	4270275.06	10.67	0.00
			636693.26	4270260.02	10.67	0.00
			636732.47	4270237.45	10.67	0.00
			636757.52	4270221.33	10.67	0.00
			636782.57	4270192.32	10.67	0.00
			636809.80	4270154.70	10.67	0.00
			636852.74	4269998.67	10.81	0.00
			636870.83	4269930.25	11.18	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: NS_SLINE1

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000		636922.08	4269848.44	12.17	0.00
			636976.55	4269927.14	11.97	0.00
			637104.49	4270037.29	10.05	0.00
			637214.53	4270080.48	8.87	0.00
			637396.94	4270117.66	4.76	0.00
			637510.00	4270147.41	9.32	0.00
			637567.28	4270163.77	10.12	0.00
			637618.58	4270193.48	10.67	0.00
			637653.29	4270218.77	10.37	0.00
			637689.62	4270273.69	10.25	0.00
			637758.97	4270376.35	10.01	0.00
			637880.13	4270577.23	10.67	0.00
			637959.66	4270673.41	10.65	0.00
			638021.12	4270712.69	10.67	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: STH_SLINE3

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
8.44	1.00000		638041.11	4270711.05	10.67	1.70
			638071.01	4270626.75	10.67	1.70
			638111.63	4270568.50	10.67	1.70
			638146.11	4270533.24	10.67	1.70
			638192.10	4270498.75	10.73	1.70
			638258.01	4270467.33	11.37	1.70
			638361.48	4270417.51	10.69	1.70
			638469.19	4270366.98	10.67	1.70
			638507.19	4270341.07	10.67	1.70
			638543.47	4270301.34	10.67	1.70
			638564.20	4270270.25	10.67	1.70
			638591.84	4270223.61	10.67	1.70
			638603.93	4270183.88	10.67	1.70
			638607.38	4270126.87	10.37	1.70
			638607.38	4269763.79	9.45	1.70
			638602.97	4269520.04	8.53	1.70
			638604.26	4268468.31	10.68	1.70

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061323	638042.53	4270707.08	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061324	638045.35	4270699.12	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061325	638048.17	4270691.17	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061326	638050.99	4270683.21	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061327	638053.81	4270675.26	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061328	638056.63	4270667.30	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061329	638059.45	4270659.35	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061330	638062.27	4270651.39	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061331	638065.09	4270643.44	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061332	638067.91	4270635.48	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061333	638070.73	4270627.53	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061334	638075.36	4270620.50	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061335	638080.19	4270613.58	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061336	638085.01	4270606.66	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061337	638089.84	4270599.74	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061338	638094.67	4270592.81	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061339	638099.50	4270585.89	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061340	638104.33	4270578.97	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061341	638109.15	4270572.04	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061342	638114.51	4270565.56	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061343	638120.41	4270559.52	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061344	638126.31	4270553.49	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061345	638132.21	4270547.46	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061346	638138.11	4270541.42	10.67	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061347	638144.02	4270535.39	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061348	638150.47	4270529.98	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061349	638157.22	4270524.92	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061350	638163.97	4270519.85	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061351	638170.72	4270514.79	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061352	638177.47	4270509.72	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061353	638184.23	4270504.66	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061354	638190.98	4270499.60	10.70	1.70	0.00334	8.44		3.93	1.93
	L0061355	638198.45	4270495.73	10.76	1.70	0.00334	8.44		3.93	1.93
	L0061356	638206.07	4270492.09	10.84	1.70	0.00334	8.44		3.93	1.93
	L0061357	638213.69	4270488.46	10.93	1.70	0.00334	8.44		3.93	1.93
	L0061358	638221.31	4270484.83	10.90	1.70	0.00334	8.44		3.93	1.93
	L0061359	638228.93	4270481.20	10.88	1.70	0.00334	8.44		3.93	1.93
	L0061360	638236.54	4270477.57	10.95	1.70	0.00334	8.44		3.93	1.93
	L0061361	638244.16	4270473.93	11.11	1.70	0.00334	8.44		3.93	1.93
	L0061362	638251.78	4270470.30	11.15	1.70	0.00334	8.44		3.93	1.93
	L0061363	638259.40	4270466.66	11.09	1.70	0.00334	8.44		3.93	1.93
	L0061364	638267.00	4270463.00	10.94	1.70	0.00334	8.44		3.93	1.93
	L0061365	638274.61	4270459.34	10.71	1.70	0.00334	8.44		3.93	1.93
	L0061366	638282.21	4270455.68	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061367	638289.82	4270452.02	10.71	1.70	0.00334	8.44		3.93	1.93
	L0061368	638297.42	4270448.36	10.75	1.70	0.00334	8.44		3.93	1.93
	L0061369	638305.02	4270444.70	10.77	1.70	0.00334	8.44		3.93	1.93
	L0061370	638312.63	4270441.03	10.81	1.70	0.00334	8.44		3.93	1.93
	L0061371	638320.23	4270437.37	10.85	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061372	638327.84	4270433.71	10.88	1.70	0.00334	8.44		3.93	1.93
	L0061373	638335.44	4270430.05	10.91	1.70	0.00334	8.44		3.93	1.93
	L0061374	638343.05	4270426.39	10.87	1.70	0.00334	8.44		3.93	1.93
	L0061375	638350.65	4270422.73	10.80	1.70	0.00334	8.44		3.93	1.93
	L0061376	638358.26	4270419.07	10.73	1.70	0.00334	8.44		3.93	1.93
	L0061377	638365.88	4270415.45	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061378	638373.52	4270411.86	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061379	638381.16	4270408.28	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061380	638388.80	4270404.69	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061381	638396.44	4270401.11	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061382	638404.09	4270397.53	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061383	638411.73	4270393.94	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061384	638419.37	4270390.36	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061385	638427.01	4270386.77	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061386	638434.65	4270383.19	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061387	638442.29	4270379.60	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061388	638449.93	4270376.02	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061389	638457.57	4270372.43	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061390	638465.21	4270368.85	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061391	638472.53	4270364.70	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061392	638479.51	4270359.95	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061393	638486.48	4270355.19	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061394	638493.45	4270350.44	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061395	638500.43	4270345.68	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061396	638507.36	4270340.89	10.67	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061397	638513.05	4270334.65	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061398	638518.74	4270328.42	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061399	638524.43	4270322.19	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061400	638530.13	4270315.95	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061401	638535.82	4270309.72	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061402	638541.51	4270303.49	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061403	638546.54	4270296.74	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061404	638551.22	4270289.72	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061405	638555.90	4270282.69	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061406	638560.58	4270275.67	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061407	638565.18	4270268.59	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061408	638569.48	4270261.33	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061409	638573.78	4270254.07	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061410	638578.09	4270246.81	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061411	638582.39	4270239.55	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061412	638586.69	4270232.29	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061413	638590.99	4270225.03	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061414	638593.81	4270217.11	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061415	638596.27	4270209.04	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061416	638598.73	4270200.97	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061417	638601.19	4270192.89	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061418	638603.64	4270184.82	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061419	638604.38	4270176.43	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061420	638604.89	4270168.01	10.67	1.70	0.00334	8.44		3.93	1.93
	L0061421	638605.40	4270159.58	10.67	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061422	638605.91	4270151.16	10.63	1.70	0.00334	8.44		3.93	1.93
	L0061423	638606.42	4270142.74	10.55	1.70	0.00334	8.44		3.93	1.93
	L0061424	638606.93	4270134.31	10.48	1.70	0.00334	8.44		3.93	1.93
	L0061425	638607.38	4270125.88	10.41	1.70	0.00334	8.44		3.93	1.93
	L0061426	638607.38	4270117.44	10.39	1.70	0.00334	8.44		3.93	1.93
	L0061427	638607.38	4270109.00	10.38	1.70	0.00334	8.44		3.93	1.93
	L0061428	638607.38	4270100.56	10.37	1.70	0.00334	8.44		3.93	1.93
	L0061429	638607.38	4270092.12	10.36	1.70	0.00334	8.44		3.93	1.93
	L0061430	638607.38	4270083.68	10.36	1.70	0.00334	8.44		3.93	1.93
	L0061431	638607.38	4270075.24	10.36	1.70	0.00334	8.44		3.93	1.93
	L0061432	638607.38	4270066.80	10.36	1.70	0.00334	8.44		3.93	1.93
	L0061433	638607.38	4270058.36	10.36	1.70	0.00334	8.44		3.93	1.93
	L0061434	638607.38	4270049.92	10.36	1.70	0.00334	8.44		3.93	1.93
	L0061435	638607.38	4270041.48	10.36	1.70	0.00334	8.44		3.93	1.93
	L0061436	638607.38	4270033.04	10.34	1.70	0.00334	8.44		3.93	1.93
	L0061437	638607.38	4270024.60	10.26	1.70	0.00334	8.44		3.93	1.93
	L0061438	638607.38	4270016.16	10.17	1.70	0.00334	8.44		3.93	1.93
	L0061439	638607.38	4270007.72	10.09	1.70	0.00334	8.44		3.93	1.93
	L0061440	638607.38	4269999.28	10.06	1.70	0.00334	8.44		3.93	1.93
	L0061441	638607.38	4269990.84	10.06	1.70	0.00334	8.44		3.93	1.93
	L0061442	638607.38	4269982.40	10.06	1.70	0.00334	8.44		3.93	1.93
	L0061443	638607.38	4269973.96	10.06	1.70	0.00334	8.44		3.93	1.93
	L0061444	638607.38	4269965.52	10.06	1.70	0.00334	8.44		3.93	1.93
	L0061445	638607.38	4269957.08	10.06	1.70	0.00334	8.44		3.93	1.93
	L0061446	638607.38	4269948.64	10.06	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061447	638607.38	4269940.20	10.02	1.70	0.00334	8.44		3.93	1.93
	L0061448	638607.38	4269931.76	9.94	1.70	0.00334	8.44		3.93	1.93
	L0061449	638607.38	4269923.32	9.86	1.70	0.00334	8.44		3.93	1.93
	L0061450	638607.38	4269914.88	9.79	1.70	0.00334	8.44		3.93	1.93
	L0061451	638607.38	4269906.44	9.78	1.70	0.00334	8.44		3.93	1.93
	L0061452	638607.38	4269898.00	9.77	1.70	0.00334	8.44		3.93	1.93
	L0061453	638607.38	4269889.56	9.76	1.70	0.00334	8.44		3.93	1.93
	L0061454	638607.38	4269881.12	9.75	1.70	0.00334	8.44		3.93	1.93
	L0061455	638607.38	4269872.68	9.75	1.70	0.00334	8.44		3.93	1.93
	L0061456	638607.38	4269864.24	9.75	1.70	0.00334	8.44		3.93	1.93
	L0061457	638607.38	4269855.80	9.75	1.70	0.00334	8.44		3.93	1.93
	L0061458	638607.38	4269847.36	9.68	1.70	0.00334	8.44		3.93	1.93
	L0061459	638607.38	4269838.92	9.59	1.70	0.00334	8.44		3.93	1.93
	L0061460	638607.38	4269830.48	9.51	1.70	0.00334	8.44		3.93	1.93
	L0061461	638607.38	4269822.04	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061462	638607.38	4269813.60	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061463	638607.38	4269805.16	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061464	638607.38	4269796.72	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061465	638607.38	4269788.28	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061466	638607.38	4269779.84	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061467	638607.38	4269771.40	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061468	638607.36	4269762.96	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061469	638607.21	4269754.53	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061470	638607.06	4269746.09	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061471	638606.90	4269737.65	9.45	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061472	638606.75	4269729.21	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061473	638606.60	4269720.77	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061474	638606.45	4269712.33	9.45	1.70	0.00334	8.44		3.93	1.93
	L0061475	638606.29	4269703.89	9.44	1.70	0.00334	8.44		3.93	1.93
	L0061476	638606.14	4269695.46	9.35	1.70	0.00334	8.44		3.93	1.93
	L0061477	638605.99	4269687.02	9.27	1.70	0.00334	8.44		3.93	1.93
	L0061478	638605.84	4269678.58	9.18	1.70	0.00334	8.44		3.93	1.93
	L0061479	638605.68	4269670.14	9.14	1.70	0.00334	8.44		3.93	1.93
	L0061480	638605.53	4269661.70	9.14	1.70	0.00334	8.44		3.93	1.93
	L0061481	638605.38	4269653.26	9.14	1.70	0.00334	8.44		3.93	1.93
	L0061482	638605.23	4269644.82	9.14	1.70	0.00334	8.44		3.93	1.93
	L0061483	638605.07	4269636.38	9.14	1.70	0.00334	8.44		3.93	1.93
	L0061484	638604.92	4269627.95	9.14	1.70	0.00334	8.44		3.93	1.93
	L0061485	638604.77	4269619.51	9.14	1.70	0.00334	8.44		3.93	1.93
	L0061486	638604.62	4269611.07	9.10	1.70	0.00334	8.44		3.93	1.93
	L0061487	638604.46	4269602.63	9.02	1.70	0.00334	8.44		3.93	1.93
	L0061488	638604.31	4269594.19	8.93	1.70	0.00334	8.44		3.93	1.93
	L0061489	638604.16	4269585.75	8.85	1.70	0.00334	8.44		3.93	1.93
	L0061490	638604.01	4269577.31	8.84	1.70	0.00334	8.44		3.93	1.93
	L0061491	638603.85	4269568.88	8.84	1.70	0.00334	8.44		3.93	1.93
	L0061492	638603.70	4269560.44	8.84	1.70	0.00334	8.44		3.93	1.93
	L0061493	638603.55	4269552.00	8.81	1.70	0.00334	8.44		3.93	1.93
	L0061494	638603.40	4269543.56	8.72	1.70	0.00334	8.44		3.93	1.93
	L0061495	638603.24	4269535.12	8.64	1.70	0.00334	8.44		3.93	1.93
	L0061496	638603.09	4269526.68	8.55	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061497	638602.97	4269518.24	8.53	1.70	0.00334	8.44		3.93	1.93
	L0061498	638602.98	4269509.80	8.53	1.70	0.00334	8.44		3.93	1.93
	L0061499	638602.99	4269501.36	8.53	1.70	0.00334	8.44		3.93	1.93
	L0061500	638603.00	4269492.92	8.53	1.70	0.00334	8.44		3.93	1.93
	L0061501	638603.01	4269484.48	8.53	1.70	0.00334	8.44		3.93	1.93
	L0061502	638603.02	4269476.04	8.53	1.70	0.00334	8.44		3.93	1.93
	L0061503	638603.03	4269467.60	8.53	1.70	0.00334	8.44		3.93	1.93
	L0061504	638603.04	4269459.16	8.48	1.70	0.00334	8.44		3.93	1.93
	L0061505	638603.05	4269450.72	8.39	1.70	0.00334	8.44		3.93	1.93
	L0061506	638603.07	4269442.28	8.30	1.70	0.00334	8.44		3.93	1.93
	L0061507	638603.08	4269433.84	8.23	1.70	0.00334	8.44		3.93	1.93
	L0061508	638603.09	4269425.40	8.23	1.70	0.00334	8.44		3.93	1.93
	L0061509	638603.10	4269416.96	8.23	1.70	0.00334	8.44		3.93	1.93
	L0061510	638603.11	4269408.52	8.23	1.70	0.00334	8.44		3.93	1.93
	L0061511	638603.12	4269400.08	8.23	1.70	0.00334	8.44		3.93	1.93
	L0061512	638603.13	4269391.64	8.23	1.70	0.00334	8.44		3.93	1.93
	L0061513	638603.14	4269383.20	8.23	1.70	0.00334	8.44		3.93	1.93
	L0061514	638603.15	4269374.76	8.23	1.70	0.00334	8.44		3.93	1.93
	L0061515	638603.16	4269366.32	8.14	1.70	0.00334	8.44		3.93	1.93
	L0061516	638603.17	4269357.88	8.06	1.70	0.00334	8.44		3.93	1.93
	L0061517	638603.18	4269349.44	7.97	1.70	0.00334	8.44		3.93	1.93
	L0061518	638603.19	4269341.00	7.92	1.70	0.00334	8.44		3.93	1.93
	L0061519	638603.20	4269332.56	7.92	1.70	0.00334	8.44		3.93	1.93
	L0061520	638603.21	4269324.12	7.92	1.70	0.00334	8.44		3.93	1.93
	L0061521	638603.22	4269315.68	7.92	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061522	638603.23	4269307.24	7.92	1.70	0.00334	8.44		3.93	1.93
	L0061523	638603.24	4269298.80	7.92	1.70	0.00334	8.44		3.93	1.93
	L0061524	638603.25	4269290.36	7.92	1.70	0.00334	8.44		3.93	1.93
	L0061525	638603.26	4269281.92	7.89	1.70	0.00334	8.44		3.93	1.93
	L0061526	638603.27	4269273.48	7.81	1.70	0.00334	8.44		3.93	1.93
	L0061527	638603.28	4269265.04	7.72	1.70	0.00334	8.44		3.93	1.93
	L0061528	638603.29	4269256.60	7.64	1.70	0.00334	8.44		3.93	1.93
	L0061529	638603.30	4269248.16	7.28	1.70	0.00334	8.44		3.93	1.93
	L0061530	638603.31	4269239.72	6.85	1.70	0.00334	8.44		3.93	1.93
	L0061531	638603.32	4269231.28	6.42	1.70	0.00334	8.44		3.93	1.93
	L0061532	638603.33	4269222.84	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061533	638603.34	4269214.40	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061534	638603.35	4269205.96	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061535	638603.36	4269197.52	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061536	638603.37	4269189.08	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061537	638603.38	4269180.64	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061538	638603.40	4269172.20	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061539	638603.41	4269163.76	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061540	638603.42	4269155.32	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061541	638603.43	4269146.88	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061542	638603.44	4269138.44	6.10	1.70	0.00334	8.44		3.93	1.93
	L0061543	638603.45	4269130.00	6.35	1.70	0.00334	8.44		3.93	1.93
	L0061544	638603.46	4269121.56	6.77	1.70	0.00334	8.44		3.93	1.93
	L0061545	638603.47	4269113.12	7.20	1.70	0.00334	8.44		3.93	1.93
	L0061546	638603.48	4269104.68	7.62	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061547	638603.49	4269096.24	7.71	1.70	0.00334	8.44		3.93	1.93
	L0061548	638603.50	4269087.80	7.79	1.70	0.00334	8.44		3.93	1.93
	L0061549	638603.51	4269079.36	7.88	1.70	0.00334	8.44		3.93	1.93
	L0061550	638603.52	4269070.92	7.97	1.70	0.00334	8.44		3.93	1.93
	L0061551	638603.53	4269062.48	8.05	1.70	0.00334	8.44		3.93	1.93
	L0061552	638603.54	4269054.04	8.14	1.70	0.00334	8.44		3.93	1.93
	L0061553	638603.55	4269045.60	8.22	1.70	0.00334	8.44		3.93	1.93
	L0061554	638603.56	4269037.16	8.39	1.70	0.00334	8.44		3.93	1.93
	L0061555	638603.57	4269028.72	8.56	1.70	0.00334	8.44		3.93	1.93
	L0061556	638603.58	4269020.28	8.73	1.70	0.00334	8.44		3.93	1.93
	L0061557	638603.59	4269011.84	8.87	1.70	0.00334	8.44		3.93	1.93
	L0061558	638603.60	4269003.40	8.96	1.70	0.00334	8.44		3.93	1.93
	L0061559	638603.61	4268994.96	9.04	1.70	0.00334	8.44		3.93	1.93
	L0061560	638603.62	4268986.52	9.13	1.70	0.00334	8.44		3.93	1.93
	L0061561	638603.63	4268978.08	9.35	1.70	0.00334	8.44		3.93	1.93
	L0061562	638603.64	4268969.64	9.61	1.70	0.00334	8.44		3.93	1.93
	L0061563	638603.65	4268961.20	9.86	1.70	0.00334	8.44		3.93	1.93
	L0061564	638603.66	4268952.76	10.18	1.70	0.00334	8.44		3.93	1.93
	L0061565	638603.67	4268944.32	10.70	1.70	0.00334	8.44		3.93	1.93
	L0061566	638603.68	4268935.88	11.22	1.70	0.00334	8.44		3.93	1.93
	L0061567	638603.69	4268927.44	11.73	1.70	0.00334	8.44		3.93	1.93
	L0061568	638603.70	4268919.00	11.94	1.70	0.00334	8.44		3.93	1.93
	L0061569	638603.71	4268910.56	12.03	1.70	0.00334	8.44		3.93	1.93
	L0061570	638603.73	4268902.12	12.12	1.70	0.00334	8.44		3.93	1.93
	L0061571	638603.74	4268893.68	12.19	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061572	638603.75	4268885.24	12.19	1.70	0.00334	8.44		3.93	1.93
	L0061573	638603.76	4268876.80	12.19	1.70	0.00334	8.44		3.93	1.93
	L0061574	638603.77	4268868.36	12.19	1.70	0.00334	8.44		3.93	1.93
	L0061575	638603.78	4268859.92	12.19	1.70	0.00334	8.44		3.93	1.93
	L0061576	638603.79	4268851.48	12.19	1.70	0.00334	8.44		3.93	1.93
	L0061577	638603.80	4268843.04	12.19	1.70	0.00334	8.44		3.93	1.93
	L0061578	638603.81	4268834.60	12.19	1.70	0.00334	8.44		3.93	1.93
	L0061579	638603.82	4268826.16	12.10	1.70	0.00334	8.44		3.93	1.93
	L0061580	638603.83	4268817.72	12.01	1.70	0.00334	8.44		3.93	1.93
	L0061581	638603.84	4268809.28	11.93	1.70	0.00334	8.44		3.93	1.93
	L0061582	638603.85	4268800.84	11.84	1.70	0.00334	8.44		3.93	1.93
	L0061583	638603.86	4268792.40	11.76	1.70	0.00334	8.44		3.93	1.93
	L0061584	638603.87	4268783.96	11.67	1.70	0.00334	8.44		3.93	1.93
	L0061585	638603.88	4268775.52	11.59	1.70	0.00334	8.44		3.93	1.93
	L0061586	638603.89	4268767.08	11.50	1.70	0.00334	8.44		3.93	1.93
	L0061587	638603.90	4268758.64	11.42	1.70	0.00334	8.44		3.93	1.93
	L0061588	638603.91	4268750.20	11.33	1.70	0.00334	8.44		3.93	1.93
	L0061589	638603.92	4268741.76	11.28	1.70	0.00334	8.44		3.93	1.93
	L0061590	638603.93	4268733.32	11.28	1.70	0.00334	8.44		3.93	1.93
	L0061591	638603.94	4268724.88	11.28	1.70	0.00334	8.44		3.93	1.93
	L0061592	638603.95	4268716.44	11.28	1.70	0.00334	8.44		3.93	1.93
	L0061593	638603.96	4268708.00	11.21	1.70	0.00334	8.44		3.93	1.93
	L0061594	638603.97	4268699.56	11.12	1.70	0.00334	8.44		3.93	1.93
	L0061595	638603.98	4268691.12	11.04	1.70	0.00334	8.44		3.93	1.93
	L0061596	638603.99	4268682.68	10.97	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
STH_SLINE3	L0061597	638604.00	4268674.24	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061598	638604.01	4268665.80	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061599	638604.02	4268657.36	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061600	638604.03	4268648.92	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061601	638604.04	4268640.48	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061602	638604.06	4268632.04	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061603	638604.07	4268623.60	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061604	638604.08	4268615.16	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061605	638604.09	4268606.72	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061606	638604.10	4268598.28	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061607	638604.11	4268589.84	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061608	638604.12	4268581.40	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061609	638604.13	4268572.96	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061610	638604.14	4268564.52	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061611	638604.15	4268556.08	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061612	638604.16	4268547.64	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061613	638604.17	4268539.20	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061614	638604.18	4268530.76	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061615	638604.19	4268522.32	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061616	638604.20	4268513.88	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061617	638604.21	4268505.44	10.97	1.70	0.00334	8.44		3.93	1.93
	L0061618	638604.22	4268497.00	10.89	1.70	0.00334	8.44		3.93	1.93
	L0061619	638604.23	4268488.56	10.81	1.70	0.00334	8.44		3.93	1.93
	L0061620	638604.24	4268480.12	10.72	1.70	0.00334	8.44		3.93	1.93
	L0061621	638604.25	4268471.68	10.67	1.70	0.00334	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068446	635613.08	4271688.74	7.91	0.00	0.00170	8.44		3.93	1.93
	L0068447	635619.65	4271683.45	7.93	0.00	0.00170	8.44		3.93	1.93
	L0068448	635626.22	4271678.16	7.94	0.00	0.00170	8.44		3.93	1.93
	L0068449	635632.80	4271672.86	7.93	0.00	0.00170	8.44		3.93	1.93
	L0068450	635639.37	4271667.57	7.90	0.00	0.00170	8.44		3.93	1.93
	L0068451	635645.95	4271662.28	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068452	635652.49	4271656.95	7.91	0.00	0.00170	8.44		3.93	1.93
	L0068453	635658.85	4271651.40	7.93	0.00	0.00170	8.44		3.93	1.93
	L0068454	635665.22	4271645.86	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068455	635671.59	4271640.32	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068456	635677.95	4271634.78	7.88	0.00	0.00170	8.44		3.93	1.93
	L0068457	635684.44	4271629.39	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068458	635691.02	4271624.10	7.93	0.00	0.00170	8.44		3.93	1.93
	L0068459	635697.59	4271618.80	7.95	0.00	0.00170	8.44		3.93	1.93
	L0068460	635704.17	4271613.51	7.94	0.00	0.00170	8.44		3.93	1.93
	L0068461	635710.74	4271608.22	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068462	635717.32	4271602.93	7.91	0.00	0.00170	8.44		3.93	1.93
	L0068463	635723.91	4271597.66	7.90	0.00	0.00170	8.44		3.93	1.93
	L0068464	635731.08	4271593.21	7.94	0.00	0.00170	8.44		3.93	1.93
	L0068465	635738.26	4271588.77	7.99	0.00	0.00170	8.44		3.93	1.93
	L0068466	635745.43	4271584.32	8.03	0.00	0.00170	8.44		3.93	1.93
	L0068467	635752.60	4271579.87	8.08	0.00	0.00170	8.44		3.93	1.93
	L0068468	635759.77	4271575.42	8.06	0.00	0.00170	8.44		3.93	1.93
	L0068469	635767.11	4271571.25	8.03	0.00	0.00170	8.44		3.93	1.93
	L0068470	635774.61	4271567.39	7.99	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068471	635782.11	4271563.52	7.96	0.00	0.00170	8.44		3.93	1.93
	L0068472	635789.66	4271559.75	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068473	635797.47	4271556.55	7.87	0.00	0.00170	8.44		3.93	1.93
	L0068474	635805.28	4271553.35	7.83	0.00	0.00170	8.44		3.93	1.93
	L0068475	635813.09	4271550.15	7.78	0.00	0.00170	8.44		3.93	1.93
	L0068476	635820.90	4271546.95	7.80	0.00	0.00170	8.44		3.93	1.93
	L0068477	635828.71	4271543.76	7.84	0.00	0.00170	8.44		3.93	1.93
	L0068478	635836.52	4271540.56	7.87	0.00	0.00170	8.44		3.93	1.93
	L0068479	635844.33	4271537.36	7.90	0.00	0.00170	8.44		3.93	1.93
	L0068480	635852.14	4271534.17	7.85	0.00	0.00170	8.44		3.93	1.93
	L0068481	635859.97	4271531.00	7.80	0.00	0.00170	8.44		3.93	1.93
	L0068482	635867.79	4271527.84	7.75	0.00	0.00170	8.44		3.93	1.93
	L0068483	635875.61	4271524.67	7.72	0.00	0.00170	8.44		3.93	1.93
	L0068484	635883.43	4271521.50	7.76	0.00	0.00170	8.44		3.93	1.93
	L0068485	635891.26	4271518.33	7.79	0.00	0.00170	8.44		3.93	1.93
	L0068486	635899.08	4271515.16	7.82	0.00	0.00170	8.44		3.93	1.93
	L0068487	635907.04	4271512.39	7.84	0.00	0.00170	8.44		3.93	1.93
	L0068488	635915.13	4271509.96	7.85	0.00	0.00170	8.44		3.93	1.93
	L0068489	635923.21	4271507.54	7.88	0.00	0.00170	8.44		3.93	1.93
	L0068490	635931.29	4271505.11	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068491	635939.38	4271502.68	7.87	0.00	0.00170	8.44		3.93	1.93
	L0068492	635947.46	4271500.25	7.81	0.00	0.00170	8.44		3.93	1.93
	L0068493	635955.54	4271497.83	7.76	0.00	0.00170	8.44		3.93	1.93
	L0068494	635963.63	4271495.40	7.72	0.00	0.00170	8.44		3.93	1.93
	L0068495	635971.71	4271492.97	7.74	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068496	635979.79	4271490.54	7.77	0.00	0.00170	8.44		3.93	1.93
	L0068497	635987.88	4271488.12	7.79	0.00	0.00170	8.44		3.93	1.93
	L0068498	635995.99	4271485.81	7.81	0.00	0.00170	8.44		3.93	1.93
	L0068499	636004.22	4271483.94	7.83	0.00	0.00170	8.44		3.93	1.93
	L0068500	636012.45	4271482.06	7.85	0.00	0.00170	8.44		3.93	1.93
	L0068501	636020.68	4271480.19	7.87	0.00	0.00170	8.44		3.93	1.93
	L0068502	636028.91	4271478.31	7.88	0.00	0.00170	8.44		3.93	1.93
	L0068503	636037.14	4271476.44	7.90	0.00	0.00170	8.44		3.93	1.93
	L0068504	636045.37	4271474.57	7.93	0.00	0.00170	8.44		3.93	1.93
	L0068505	636053.60	4271472.69	7.93	0.00	0.00170	8.44		3.93	1.93
	L0068506	636061.84	4271470.87	7.86	0.00	0.00170	8.44		3.93	1.93
	L0068507	636070.14	4271469.35	7.79	0.00	0.00170	8.44		3.93	1.93
	L0068508	636078.44	4271467.82	7.74	0.00	0.00170	8.44		3.93	1.93
	L0068509	636086.74	4271466.30	7.71	0.00	0.00170	8.44		3.93	1.93
	L0068510	636095.04	4271464.78	7.72	0.00	0.00170	8.44		3.93	1.93
	L0068511	636103.35	4271463.26	7.74	0.00	0.00170	8.44		3.93	1.93
	L0068512	636111.65	4271461.74	7.75	0.00	0.00170	8.44		3.93	1.93
	L0068513	636120.02	4271460.72	7.76	0.00	0.00170	8.44		3.93	1.93
	L0068514	636128.40	4271459.70	7.77	0.00	0.00170	8.44		3.93	1.93
	L0068515	636136.78	4271458.68	7.79	0.00	0.00170	8.44		3.93	1.93
	L0068516	636145.16	4271457.66	7.72	0.00	0.00170	8.44		3.93	1.93
	L0068517	636153.54	4271456.64	7.24	0.00	0.00170	8.44		3.93	1.93
	L0068518	636161.92	4271455.61	6.84	0.00	0.00170	8.44		3.93	1.93
	L0068519	636170.28	4271454.48	6.55	0.00	0.00170	8.44		3.93	1.93
	L0068520	636178.63	4271453.26	6.77	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068521	636186.98	4271452.03	7.24	0.00	0.00170	8.44		3.93	1.93
	L0068522	636195.33	4271450.80	7.61	0.00	0.00170	8.44		3.93	1.93
	L0068523	636203.68	4271449.57	7.87	0.00	0.00170	8.44		3.93	1.93
	L0068524	636212.03	4271448.35	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068525	636220.38	4271447.12	7.90	0.00	0.00170	8.44		3.93	1.93
	L0068526	636228.73	4271445.89	7.91	0.00	0.00170	8.44		3.93	1.93
	L0068527	636237.06	4271444.54	7.93	0.00	0.00170	8.44		3.93	1.93
	L0068528	636245.39	4271443.19	7.94	0.00	0.00170	8.44		3.93	1.93
	L0068529	636253.72	4271441.84	7.94	0.00	0.00170	8.44		3.93	1.93
	L0068530	636262.05	4271440.49	7.93	0.00	0.00170	8.44		3.93	1.93
	L0068531	636270.39	4271439.14	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068532	636278.71	4271437.75	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068533	636287.01	4271436.20	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068534	636295.30	4271434.65	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068535	636303.60	4271433.10	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068536	636311.90	4271431.54	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068537	636320.21	4271430.12	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068538	636328.56	4271428.84	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068539	636336.90	4271427.56	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068540	636345.24	4271426.28	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068541	636353.58	4271425.00	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068542	636361.93	4271423.72	7.90	0.00	0.00170	8.44		3.93	1.93
	L0068543	636370.27	4271422.44	7.88	0.00	0.00170	8.44		3.93	1.93
	L0068544	636378.63	4271421.36	7.87	0.00	0.00170	8.44		3.93	1.93
	L0068545	636387.06	4271420.85	7.86	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068546	636395.48	4271420.34	7.87	0.00	0.00170	8.44		3.93	1.93
	L0068547	636403.91	4271419.83	7.87	0.00	0.00170	8.44		3.93	1.93
	L0068548	636412.33	4271419.31	7.88	0.00	0.00170	8.44		3.93	1.93
	L0068549	636420.76	4271418.85	7.88	0.00	0.00170	8.44		3.93	1.93
	L0068550	636429.20	4271418.77	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068551	636437.64	4271418.70	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068552	636446.07	4271418.63	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068553	636454.51	4271418.55	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068554	636462.95	4271418.48	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068555	636471.39	4271418.40	7.89	0.00	0.00170	8.44		3.93	1.93
	L0068556	636479.83	4271418.33	7.90	0.00	0.00170	8.44		3.93	1.93
	L0068557	636488.27	4271418.25	7.91	0.00	0.00170	8.44		3.93	1.93
	L0068558	636496.71	4271418.34	7.92	0.00	0.00170	8.44		3.93	1.93
	L0068559	636505.12	4271418.98	7.97	0.00	0.00170	8.44		3.93	1.93
	L0068560	636513.54	4271419.61	8.30	0.00	0.00170	8.44		3.93	1.93
	L0068561	636521.96	4271420.24	8.62	0.00	0.00170	8.44		3.93	1.93
	L0068562	636530.37	4271420.88	8.94	0.00	0.00170	8.44		3.93	1.93
	L0068563	636538.79	4271421.51	9.09	0.00	0.00170	8.44		3.93	1.93
	L0068564	636547.20	4271422.15	9.10	0.00	0.00170	8.44		3.93	1.93
	L0068565	636555.62	4271422.78	9.12	0.00	0.00170	8.44		3.93	1.93
	L0068566	636564.04	4271423.42	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068567	636572.45	4271424.05	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068568	636580.87	4271424.69	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068569	636589.28	4271425.32	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068570	636597.69	4271426.10	9.14	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068571	636606.09	4271426.92	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068572	636614.49	4271427.74	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068573	636622.89	4271428.56	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068574	636631.29	4271429.38	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068575	636639.69	4271430.20	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068576	636648.09	4271431.02	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068577	636656.49	4271431.85	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068578	636664.88	4271432.77	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068579	636673.26	4271433.73	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068580	636681.65	4271434.69	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068581	636690.03	4271435.65	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068582	636698.42	4271436.61	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068583	636706.80	4271437.57	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068584	636715.19	4271438.53	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068585	636723.57	4271439.49	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068586	636731.96	4271440.45	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068587	636740.37	4271441.17	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068588	636748.78	4271441.84	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068589	636757.19	4271442.51	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068590	636765.61	4271443.18	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068591	636774.02	4271443.85	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068592	636782.43	4271444.51	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068593	636790.85	4271445.18	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068594	636799.26	4271445.92	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068595	636807.66	4271446.66	9.14	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068596	636816.07	4271447.40	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068597	636824.48	4271448.14	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068598	636832.89	4271448.88	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068599	636841.29	4271449.63	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068600	636849.70	4271450.37	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068601	636858.11	4271451.11	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068602	636866.51	4271451.85	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068603	636874.92	4271452.60	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068604	636883.32	4271453.43	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068605	636891.72	4271454.26	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068606	636900.12	4271455.09	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068607	636908.52	4271455.92	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068608	636916.92	4271456.75	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068609	636925.34	4271457.29	9.15	0.00	0.00170	8.44		3.93	1.93
	L0068610	636933.77	4271457.60	9.20	0.00	0.00170	8.44		3.93	1.93
	L0068611	636942.20	4271457.91	9.25	0.00	0.00170	8.44		3.93	1.93
	L0068612	636950.64	4271458.22	9.29	0.00	0.00170	8.44		3.93	1.93
	L0068613	636959.04	4271458.07	9.37	0.00	0.00170	8.44		3.93	1.93
	L0068614	636967.37	4271456.67	9.47	0.00	0.00170	8.44		3.93	1.93
	L0068615	636975.69	4271455.28	9.56	0.00	0.00170	8.44		3.93	1.93
	L0068616	636984.02	4271453.88	9.66	0.00	0.00170	8.44		3.93	1.93
	L0068617	636992.34	4271452.47	9.70	0.00	0.00170	8.44		3.93	1.93
	L0068618	637000.34	4271449.79	9.73	0.00	0.00170	8.44		3.93	1.93
	L0068619	637008.34	4271447.11	9.75	0.00	0.00170	8.44		3.93	1.93
	L0068620	637016.34	4271444.43	9.78	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068621	637024.27	4271441.54	9.89	0.00	0.00170	8.44		3.93	1.93
	L0068622	637032.11	4271438.40	10.00	0.00	0.00170	8.44		3.93	1.93
	L0068623	637039.94	4271435.26	10.12	0.00	0.00170	8.44		3.93	1.93
	L0068624	637047.77	4271432.12	10.23	0.00	0.00170	8.44		3.93	1.93
	L0068625	637055.61	4271428.98	10.33	0.00	0.00170	8.44		3.93	1.93
	L0068626	637063.44	4271425.84	10.40	0.00	0.00170	8.44		3.93	1.93
	L0068627	637070.23	4271420.83	10.41	0.00	0.00170	8.44		3.93	1.93
	L0068628	637076.99	4271415.79	10.40	0.00	0.00170	8.44		3.93	1.93
	L0068629	637083.76	4271410.75	10.41	0.00	0.00170	8.44		3.93	1.93
	L0068630	637090.53	4271405.70	10.39	0.00	0.00170	8.44		3.93	1.93
	L0068631	637097.30	4271400.66	10.34	0.00	0.00170	8.44		3.93	1.93
	L0068632	637103.85	4271395.34	10.27	0.00	0.00170	8.44		3.93	1.93
	L0068633	637110.33	4271389.93	10.14	0.00	0.00170	8.44		3.93	1.93
	L0068634	637116.80	4271384.51	10.05	0.00	0.00170	8.44		3.93	1.93
	L0068635	637123.28	4271379.10	10.00	0.00	0.00170	8.44		3.93	1.93
	L0068636	637129.75	4271373.69	9.94	0.00	0.00170	8.44		3.93	1.93
	L0068637	637136.22	4271368.27	9.86	0.00	0.00170	8.44		3.93	1.93
	L0068638	637142.84	4271363.04	9.76	0.00	0.00170	8.44		3.93	1.93
	L0068639	637149.54	4271357.90	9.74	0.00	0.00170	8.44		3.93	1.93
	L0068640	637156.24	4271352.76	9.77	0.00	0.00170	8.44		3.93	1.93
	L0068641	637162.19	4271347.53	9.82	0.00	0.00170	8.44		3.93	1.93
	L0068642	637156.98	4271340.89	9.86	0.00	0.00170	8.44		3.93	1.93
	L0068643	637151.77	4271334.25	9.88	0.00	0.00170	8.44		3.93	1.93
	L0068644	637146.56	4271327.61	9.87	0.00	0.00170	8.44		3.93	1.93
	L0068645	637141.36	4271320.96	9.83	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068646	637136.15	4271314.32	9.78	0.00	0.00170	8.44		3.93	1.93
	L0068647	637130.94	4271307.68	9.75	0.00	0.00170	8.44		3.93	1.93
	L0068648	637125.73	4271301.04	9.75	0.00	0.00170	8.44		3.93	1.93
	L0068649	637120.52	4271294.40	9.75	0.00	0.00170	8.44		3.93	1.93
	L0068650	637115.32	4271287.76	9.75	0.00	0.00170	8.44		3.93	1.93
	L0068651	637110.11	4271281.12	9.75	0.00	0.00170	8.44		3.93	1.93
	L0068652	637104.90	4271274.47	9.75	0.00	0.00170	8.44		3.93	1.93
	L0068653	637099.69	4271267.83	9.71	0.00	0.00170	8.44		3.93	1.93
	L0068654	637094.48	4271261.19	9.63	0.00	0.00170	8.44		3.93	1.93
	L0068655	637089.14	4271254.66	9.55	0.00	0.00170	8.44		3.93	1.93
	L0068656	637083.63	4271248.27	9.49	0.00	0.00170	8.44		3.93	1.93
	L0068657	637078.12	4271241.88	9.46	0.00	0.00170	8.44		3.93	1.93
	L0068658	637072.61	4271235.48	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068659	637067.10	4271229.09	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068660	637061.59	4271222.70	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068661	637056.08	4271216.30	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068662	637050.57	4271209.91	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068663	637045.06	4271203.52	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068664	637039.55	4271197.13	9.40	0.00	0.00170	8.44		3.93	1.93
	L0068665	637034.04	4271190.73	9.35	0.00	0.00170	8.44		3.93	1.93
	L0068666	637028.77	4271184.14	9.29	0.00	0.00170	8.44		3.93	1.93
	L0068667	637023.87	4271177.28	9.24	0.00	0.00170	8.44		3.93	1.93
	L0068668	637018.97	4271170.41	9.19	0.00	0.00170	8.44		3.93	1.93
	L0068669	637014.06	4271163.54	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068670	637009.16	4271156.67	9.14	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068671	637004.25	4271149.80	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068672	636999.35	4271142.93	9.15	0.00	0.00170	8.44		3.93	1.93
	L0068673	636994.45	4271136.06	9.18	0.00	0.00170	8.44		3.93	1.93
	L0068674	636989.54	4271129.19	9.17	0.00	0.00170	8.44		3.93	1.93
	L0068675	636984.02	4271122.82	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068676	636978.34	4271116.58	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068677	636972.66	4271110.34	9.17	0.00	0.00170	8.44		3.93	1.93
	L0068678	636966.97	4271104.10	9.19	0.00	0.00170	8.44		3.93	1.93
	L0068679	636961.29	4271097.86	9.19	0.00	0.00170	8.44		3.93	1.93
	L0068680	636955.61	4271091.62	9.16	0.00	0.00170	8.44		3.93	1.93
	L0068681	636949.93	4271085.38	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068682	636944.25	4271079.14	9.20	0.00	0.00170	8.44		3.93	1.93
	L0068683	636938.61	4271072.86	9.27	0.00	0.00170	8.44		3.93	1.93
	L0068684	636933.18	4271066.39	9.33	0.00	0.00170	8.44		3.93	1.93
	L0068685	636927.76	4271059.93	9.40	0.00	0.00170	8.44		3.93	1.93
	L0068686	636922.33	4271053.46	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068687	636916.91	4271047.00	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068688	636911.48	4271040.53	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068689	636906.05	4271034.07	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068690	636900.63	4271027.60	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068691	636895.20	4271021.14	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068692	636889.78	4271014.67	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068693	636884.35	4271008.21	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068694	636878.93	4271001.74	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068695	636873.50	4270995.27	9.45	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

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NS_SLINE1	L0068696	636868.08	4270988.81	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068697	636862.65	4270982.34	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068698	636857.23	4270975.88	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068699	636851.80	4270969.41	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068700	636846.46	4270962.88	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068701	636841.13	4270956.34	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068702	636835.79	4270949.80	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068703	636830.46	4270943.26	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068704	636825.13	4270936.71	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068705	636819.79	4270930.17	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068706	636814.46	4270923.63	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068707	636809.12	4270917.09	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068708	636803.79	4270910.55	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068709	636798.45	4270904.01	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068710	636793.12	4270897.47	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068711	636787.78	4270890.93	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068712	636782.45	4270884.39	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068713	636777.12	4270877.85	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068714	636771.78	4270871.31	9.43	0.00	0.00170	8.44		3.93	1.93
	L0068715	636766.45	4270864.77	9.37	0.00	0.00170	8.44		3.93	1.93
	L0068716	636761.11	4270858.23	9.32	0.00	0.00170	8.44		3.93	1.93
	L0068717	636755.78	4270851.69	9.26	0.00	0.00170	8.44		3.93	1.93
	L0068718	636750.44	4270845.15	9.21	0.00	0.00170	8.44		3.93	1.93
	L0068719	636745.09	4270838.62	9.16	0.00	0.00170	8.44		3.93	1.93
	L0068720	636739.72	4270832.11	9.14	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068721	636734.36	4270825.60	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068722	636728.99	4270819.08	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068723	636723.62	4270812.57	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068724	636718.26	4270806.05	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068725	636712.89	4270799.54	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068726	636707.52	4270793.02	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068727	636702.16	4270786.51	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068728	636696.79	4270780.00	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068729	636691.32	4270773.57	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068730	636685.81	4270767.18	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068731	636680.29	4270760.79	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068732	636674.78	4270754.40	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068733	636669.26	4270748.02	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068734	636663.74	4270741.63	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068735	636658.23	4270735.24	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068736	636652.71	4270728.85	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068737	636647.20	4270722.46	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068738	636641.68	4270716.07	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068739	636636.17	4270709.69	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068740	636630.65	4270703.30	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068741	636625.13	4270696.91	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068742	636619.62	4270690.52	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068743	636614.24	4270684.02	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068744	636609.23	4270677.26	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068745	636605.27	4270669.81	9.14	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068746	636601.30	4270662.36	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068747	636597.34	4270654.91	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068748	636593.58	4270647.36	9.15	0.00	0.00170	8.44		3.93	1.93
	L0068749	636589.90	4270639.76	9.25	0.00	0.00170	8.44		3.93	1.93
	L0068750	636586.62	4270631.99	9.45	0.00	0.00170	8.44		3.93	1.93
	L0068751	636583.51	4270624.14	9.75	0.00	0.00170	8.44		3.93	1.93
	L0068752	636580.91	4270616.12	10.03	0.00	0.00170	8.44		3.93	1.93
	L0068753	636578.46	4270608.04	10.29	0.00	0.00170	8.44		3.93	1.93
	L0068754	636576.00	4270599.97	10.46	0.00	0.00170	8.44		3.93	1.93
	L0068755	636574.01	4270591.78	10.55	0.00	0.00170	8.44		3.93	1.93
	L0068756	636572.45	4270583.48	10.62	0.00	0.00170	8.44		3.93	1.93
	L0068757	636570.82	4270575.20	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068758	636569.06	4270566.95	10.60	0.00	0.00170	8.44		3.93	1.93
	L0068759	636567.30	4270558.69	10.52	0.00	0.00170	8.44		3.93	1.93
	L0068760	636565.87	4270550.39	10.43	0.00	0.00170	8.44		3.93	1.93
	L0068761	636565.14	4270541.98	10.38	0.00	0.00170	8.44		3.93	1.93
	L0068762	636564.40	4270533.57	10.37	0.00	0.00170	8.44		3.93	1.93
	L0068763	636563.67	4270525.17	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068764	636562.94	4270516.76	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068765	636562.43	4270508.33	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068766	636561.99	4270499.91	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068767	636561.56	4270491.48	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068768	636561.12	4270483.05	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068769	636561.61	4270474.67	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068770	636563.01	4270466.35	10.36	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068771	636564.42	4270458.03	10.37	0.00	0.00170	8.44		3.93	1.93
	L0068772	636566.14	4270449.78	10.43	0.00	0.00170	8.44		3.93	1.93
	L0068773	636568.35	4270441.63	10.52	0.00	0.00170	8.44		3.93	1.93
	L0068774	636570.55	4270433.48	10.60	0.00	0.00170	8.44		3.93	1.93
	L0068775	636572.75	4270425.33	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068776	636574.95	4270417.19	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068777	636577.15	4270409.04	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068778	636579.79	4270401.03	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068779	636582.90	4270393.19	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068780	636586.02	4270385.35	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068781	636589.14	4270377.50	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068782	636592.25	4270369.66	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068783	636595.37	4270361.82	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068784	636598.49	4270353.97	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068785	636602.46	4270346.59	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068786	636607.34	4270339.71	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068787	636612.22	4270332.82	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068788	636617.11	4270325.94	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068789	636621.99	4270319.06	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068790	636627.68	4270312.85	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068791	636633.57	4270306.81	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068792	636639.47	4270300.77	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068793	636645.36	4270294.73	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068794	636651.26	4270288.69	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068795	636657.84	4270283.40	10.67	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068796	636664.42	4270278.11	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068797	636671.27	4270273.22	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068798	636678.51	4270268.88	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068799	636685.75	4270264.53	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068800	636692.98	4270260.19	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068801	636700.29	4270255.97	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068802	636707.61	4270251.76	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068803	636714.92	4270247.55	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068804	636722.24	4270243.34	10.68	0.00	0.00170	8.44		3.93	1.93
	L0068805	636729.55	4270239.13	10.70	0.00	0.00170	8.44		3.93	1.93
	L0068806	636736.74	4270234.71	10.69	0.00	0.00170	8.44		3.93	1.93
	L0068807	636743.83	4270230.14	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068808	636750.93	4270225.57	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068809	636757.92	4270220.88	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068810	636763.43	4270214.49	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068811	636768.95	4270208.10	10.68	0.00	0.00170	8.44		3.93	1.93
	L0068812	636774.46	4270201.71	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068813	636779.98	4270195.32	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068814	636785.19	4270188.70	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068815	636790.14	4270181.86	10.68	0.00	0.00170	8.44		3.93	1.93
	L0068816	636795.09	4270175.02	10.70	0.00	0.00170	8.44		3.93	1.93
	L0068817	636800.04	4270168.19	10.69	0.00	0.00170	8.44		3.93	1.93
	L0068818	636804.99	4270161.35	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068819	636809.86	4270154.48	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068820	636812.10	4270146.34	10.67	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068821	636814.34	4270138.20	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068822	636816.58	4270130.06	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068823	636818.82	4270121.93	10.68	0.00	0.00170	8.44		3.93	1.93
	L0068824	636821.06	4270113.79	10.72	0.00	0.00170	8.44		3.93	1.93
	L0068825	636823.30	4270105.65	10.74	0.00	0.00170	8.44		3.93	1.93
	L0068826	636825.54	4270097.51	10.75	0.00	0.00170	8.44		3.93	1.93
	L0068827	636827.78	4270089.38	10.73	0.00	0.00170	8.44		3.93	1.93
	L0068828	636830.02	4270081.24	10.71	0.00	0.00170	8.44		3.93	1.93
	L0068829	636832.26	4270073.10	10.69	0.00	0.00170	8.44		3.93	1.93
	L0068830	636834.50	4270064.96	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068831	636836.74	4270056.83	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068832	636838.97	4270048.69	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068833	636841.21	4270040.55	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068834	636843.45	4270032.41	10.69	0.00	0.00170	8.44		3.93	1.93
	L0068835	636845.69	4270024.28	10.73	0.00	0.00170	8.44		3.93	1.93
	L0068836	636847.93	4270016.14	10.77	0.00	0.00170	8.44		3.93	1.93
	L0068837	636850.17	4270008.00	10.79	0.00	0.00170	8.44		3.93	1.93
	L0068838	636852.41	4269999.86	10.84	0.00	0.00170	8.44		3.93	1.93
	L0068839	636854.58	4269991.71	10.90	0.00	0.00170	8.44		3.93	1.93
	L0068840	636856.74	4269983.55	10.96	0.00	0.00170	8.44		3.93	1.93
	L0068841	636858.89	4269975.39	11.02	0.00	0.00170	8.44		3.93	1.93
	L0068842	636861.05	4269967.23	11.02	0.00	0.00170	8.44		3.93	1.93
	L0068843	636863.21	4269959.07	10.99	0.00	0.00170	8.44		3.93	1.93
	L0068844	636865.37	4269950.91	10.97	0.00	0.00170	8.44		3.93	1.93
	L0068845	636867.52	4269942.75	11.00	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068846	636869.68	4269934.59	11.14	0.00	0.00170	8.44		3.93	1.93
	L0068847	636872.93	4269926.90	11.32	0.00	0.00170	8.44		3.93	1.93
	L0068848	636877.41	4269919.75	11.57	0.00	0.00170	8.44		3.93	1.93
	L0068849	636881.89	4269912.60	11.79	0.00	0.00170	8.44		3.93	1.93
	L0068850	636886.37	4269905.45	11.84	0.00	0.00170	8.44		3.93	1.93
	L0068851	636890.85	4269898.29	11.91	0.00	0.00170	8.44		3.93	1.93
	L0068852	636895.33	4269891.14	11.94	0.00	0.00170	8.44		3.93	1.93
	L0068853	636899.81	4269883.99	11.84	0.00	0.00170	8.44		3.93	1.93
	L0068854	636904.29	4269876.84	11.89	0.00	0.00170	8.44		3.93	1.93
	L0068855	636908.77	4269869.68	11.97	0.00	0.00170	8.44		3.93	1.93
	L0068856	636913.26	4269862.53	12.06	0.00	0.00170	8.44		3.93	1.93
	L0068857	636917.74	4269855.38	12.18	0.00	0.00170	8.44		3.93	1.93
	L0068858	636922.23	4269848.65	12.13	0.00	0.00170	8.44		3.93	1.93
	L0068859	636927.03	4269855.59	12.18	0.00	0.00170	8.44		3.93	1.93
	L0068860	636931.83	4269862.53	12.08	0.00	0.00170	8.44		3.93	1.93
	L0068861	636936.64	4269869.47	12.02	0.00	0.00170	8.44		3.93	1.93
	L0068862	636941.44	4269876.41	12.01	0.00	0.00170	8.44		3.93	1.93
	L0068863	636946.24	4269883.35	12.04	0.00	0.00170	8.44		3.93	1.93
	L0068864	636951.05	4269890.29	12.14	0.00	0.00170	8.44		3.93	1.93
	L0068865	636955.85	4269897.23	12.18	0.00	0.00170	8.44		3.93	1.93
	L0068866	636960.65	4269904.17	12.15	0.00	0.00170	8.44		3.93	1.93
	L0068867	636965.46	4269911.11	12.09	0.00	0.00170	8.44		3.93	1.93
	L0068868	636970.26	4269918.05	12.01	0.00	0.00170	8.44		3.93	1.93
	L0068869	636975.06	4269924.99	11.95	0.00	0.00170	8.44		3.93	1.93
	L0068870	636980.97	4269930.94	11.90	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068871	636987.36	4269936.45	11.83	0.00	0.00170	8.44		3.93	1.93
	L0068872	636993.76	4269941.96	11.70	0.00	0.00170	8.44		3.93	1.93
	L0068873	637000.15	4269947.46	11.51	0.00	0.00170	8.44		3.93	1.93
	L0068874	637006.55	4269952.97	11.31	0.00	0.00170	8.44		3.93	1.93
	L0068875	637012.95	4269958.48	11.15	0.00	0.00170	8.44		3.93	1.93
	L0068876	637019.34	4269963.98	11.03	0.00	0.00170	8.44		3.93	1.93
	L0068877	637025.74	4269969.49	10.91	0.00	0.00170	8.44		3.93	1.93
	L0068878	637032.14	4269975.00	10.79	0.00	0.00170	8.44		3.93	1.93
	L0068879	637038.53	4269980.50	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068880	637044.93	4269986.01	10.55	0.00	0.00170	8.44		3.93	1.93
	L0068881	637051.32	4269991.52	10.42	0.00	0.00170	8.44		3.93	1.93
	L0068882	637057.72	4269997.02	10.30	0.00	0.00170	8.44		3.93	1.93
	L0068883	637064.12	4270002.53	10.18	0.00	0.00170	8.44		3.93	1.93
	L0068884	637070.51	4270008.04	10.09	0.00	0.00170	8.44		3.93	1.93
	L0068885	637076.91	4270013.54	10.04	0.00	0.00170	8.44		3.93	1.93
	L0068886	637083.30	4270019.05	10.01	0.00	0.00170	8.44		3.93	1.93
	L0068887	637089.70	4270024.55	10.00	0.00	0.00170	8.44		3.93	1.93
	L0068888	637096.10	4270030.06	10.02	0.00	0.00170	8.44		3.93	1.93
	L0068889	637102.49	4270035.57	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068890	637109.89	4270039.41	10.00	0.00	0.00170	8.44		3.93	1.93
	L0068891	637117.75	4270042.49	9.92	0.00	0.00170	8.44		3.93	1.93
	L0068892	637125.61	4270045.57	9.84	0.00	0.00170	8.44		3.93	1.93
	L0068893	637133.46	4270048.66	9.76	0.00	0.00170	8.44		3.93	1.93
	L0068894	637141.32	4270051.74	9.68	0.00	0.00170	8.44		3.93	1.93
	L0068895	637149.18	4270054.83	9.60	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068896	637157.03	4270057.91	9.52	0.00	0.00170	8.44		3.93	1.93
	L0068897	637164.89	4270060.99	9.44	0.00	0.00170	8.44		3.93	1.93
	L0068898	637172.75	4270064.08	9.36	0.00	0.00170	8.44		3.93	1.93
	L0068899	637180.60	4270067.16	9.29	0.00	0.00170	8.44		3.93	1.93
	L0068900	637188.46	4270070.24	9.21	0.00	0.00170	8.44		3.93	1.93
	L0068901	637196.32	4270073.33	9.12	0.00	0.00170	8.44		3.93	1.93
	L0068902	637204.17	4270076.41	9.04	0.00	0.00170	8.44		3.93	1.93
	L0068903	637212.03	4270079.50	8.96	0.00	0.00170	8.44		3.93	1.93
	L0068904	637220.17	4270081.63	8.88	0.00	0.00170	8.44		3.93	1.93
	L0068905	637228.44	4270083.31	8.75	0.00	0.00170	8.44		3.93	1.93
	L0068906	637236.71	4270085.00	8.58	0.00	0.00170	8.44		3.93	1.93
	L0068907	637244.98	4270086.68	8.41	0.00	0.00170	8.44		3.93	1.93
	L0068908	637253.25	4270088.37	8.24	0.00	0.00170	8.44		3.93	1.93
	L0068909	637261.52	4270090.06	8.15	0.00	0.00170	8.44		3.93	1.93
	L0068910	637269.79	4270091.74	8.07	0.00	0.00170	8.44		3.93	1.93
	L0068911	637278.06	4270093.43	7.98	0.00	0.00170	8.44		3.93	1.93
	L0068912	637286.33	4270095.11	7.90	0.00	0.00170	8.44		3.93	1.93
	L0068913	637294.60	4270096.80	7.75	0.00	0.00170	8.44		3.93	1.93
	L0068914	637302.87	4270098.49	7.50	0.00	0.00170	8.44		3.93	1.93
	L0068915	637311.14	4270100.17	7.17	0.00	0.00170	8.44		3.93	1.93
	L0068916	637319.41	4270101.86	6.49	0.00	0.00170	8.44		3.93	1.93
	L0068917	637327.68	4270103.54	5.75	0.00	0.00170	8.44		3.93	1.93
	L0068918	637335.94	4270105.23	5.11	0.00	0.00170	8.44		3.93	1.93
	L0068919	637344.21	4270106.92	4.57	0.00	0.00170	8.44		3.93	1.93
	L0068920	637352.48	4270108.60	4.57	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068921	637360.75	4270110.29	4.57	0.00	0.00170	8.44		3.93	1.93
	L0068922	637369.02	4270111.97	4.57	0.00	0.00170	8.44		3.93	1.93
	L0068923	637377.29	4270113.66	4.57	0.00	0.00170	8.44		3.93	1.93
	L0068924	637385.56	4270115.34	4.57	0.00	0.00170	8.44		3.93	1.93
	L0068925	637393.83	4270117.03	4.57	0.00	0.00170	8.44		3.93	1.93
	L0068926	637402.04	4270119.01	4.57	0.00	0.00170	8.44		3.93	1.93
	L0068927	637410.20	4270121.15	5.31	0.00	0.00170	8.44		3.93	1.93
	L0068928	637418.36	4270123.30	6.30	0.00	0.00170	8.44		3.93	1.93
	L0068929	637426.52	4270125.45	7.32	0.00	0.00170	8.44		3.93	1.93
	L0068930	637434.69	4270127.60	8.19	0.00	0.00170	8.44		3.93	1.93
	L0068931	637442.85	4270129.74	8.34	0.00	0.00170	8.44		3.93	1.93
	L0068932	637451.01	4270131.89	8.51	0.00	0.00170	8.44		3.93	1.93
	L0068933	637459.17	4270134.04	8.71	0.00	0.00170	8.44		3.93	1.93
	L0068934	637467.33	4270136.19	8.89	0.00	0.00170	8.44		3.93	1.93
	L0068935	637475.50	4270138.33	9.01	0.00	0.00170	8.44		3.93	1.93
	L0068936	637483.66	4270140.48	9.14	0.00	0.00170	8.44		3.93	1.93
	L0068937	637491.82	4270142.63	9.29	0.00	0.00170	8.44		3.93	1.93
	L0068938	637499.98	4270144.78	9.31	0.00	0.00170	8.44		3.93	1.93
	L0068939	637508.15	4270146.92	9.26	0.00	0.00170	8.44		3.93	1.93
	L0068940	637516.27	4270149.20	9.21	0.00	0.00170	8.44		3.93	1.93
	L0068941	637524.39	4270151.52	9.15	0.00	0.00170	8.44		3.93	1.93
	L0068942	637532.50	4270153.84	9.32	0.00	0.00170	8.44		3.93	1.93
	L0068943	637540.62	4270156.16	9.50	0.00	0.00170	8.44		3.93	1.93
	L0068944	637548.73	4270158.47	9.67	0.00	0.00170	8.44		3.93	1.93
	L0068945	637556.85	4270160.79	9.84	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068946	637564.96	4270163.11	10.09	0.00	0.00170	8.44		3.93	1.93
	L0068947	637572.50	4270166.79	10.32	0.00	0.00170	8.44		3.93	1.93
	L0068948	637579.80	4270171.02	10.54	0.00	0.00170	8.44		3.93	1.93
	L0068949	637587.11	4270175.26	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068950	637594.41	4270179.49	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068951	637601.71	4270183.72	10.67	0.00	0.00170	8.44		3.93	1.93
	L0068952	637609.02	4270187.95	10.64	0.00	0.00170	8.44		3.93	1.93
	L0068953	637616.32	4270192.18	10.59	0.00	0.00170	8.44		3.93	1.93
	L0068954	637623.29	4270196.92	10.55	0.00	0.00170	8.44		3.93	1.93
	L0068955	637630.11	4270201.89	10.50	0.00	0.00170	8.44		3.93	1.93
	L0068956	637636.93	4270206.86	10.45	0.00	0.00170	8.44		3.93	1.93
	L0068957	637643.76	4270211.83	10.39	0.00	0.00170	8.44		3.93	1.93
	L0068958	637650.58	4270216.79	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068959	637656.09	4270223.01	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068960	637660.75	4270230.05	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068961	637665.41	4270237.09	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068962	637670.07	4270244.13	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068963	637674.72	4270251.17	10.36	0.00	0.00170	8.44		3.93	1.93
	L0068964	637679.38	4270258.20	10.34	0.00	0.00170	8.44		3.93	1.93
	L0068965	637684.04	4270265.24	10.29	0.00	0.00170	8.44		3.93	1.93
	L0068966	637688.70	4270272.28	10.23	0.00	0.00170	8.44		3.93	1.93
	L0068967	637693.41	4270279.29	10.17	0.00	0.00170	8.44		3.93	1.93
	L0068968	637698.13	4270286.28	10.12	0.00	0.00170	8.44		3.93	1.93
	L0068969	637702.85	4270293.27	10.07	0.00	0.00170	8.44		3.93	1.93
	L0068970	637707.58	4270300.27	10.06	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068971	637712.30	4270307.26	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068972	637717.03	4270314.26	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068973	637721.75	4270321.25	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068974	637726.47	4270328.24	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068975	637731.20	4270335.24	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068976	637735.92	4270342.23	10.04	0.00	0.00170	8.44		3.93	1.93
	L0068977	637740.65	4270349.23	10.02	0.00	0.00170	8.44		3.93	1.93
	L0068978	637745.37	4270356.22	10.02	0.00	0.00170	8.44		3.93	1.93
	L0068979	637750.09	4270363.22	10.05	0.00	0.00170	8.44		3.93	1.93
	L0068980	637754.82	4270370.21	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068981	637759.50	4270377.23	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068982	637763.86	4270384.46	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068983	637768.22	4270391.69	10.05	0.00	0.00170	8.44		3.93	1.93
	L0068984	637772.57	4270398.91	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068985	637776.93	4270406.14	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068986	637781.29	4270413.37	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068987	637785.65	4270420.59	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068988	637790.01	4270427.82	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068989	637794.37	4270435.05	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068990	637798.73	4270442.28	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068991	637803.09	4270449.50	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068992	637807.45	4270456.73	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068993	637811.81	4270463.96	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068994	637816.17	4270471.18	10.06	0.00	0.00170	8.44		3.93	1.93
	L0068995	637820.53	4270478.41	10.06	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0068996	637824.88	4270485.64	10.07	0.00	0.00170	8.44		3.93	1.93
	L0068997	637829.24	4270492.87	10.18	0.00	0.00170	8.44		3.93	1.93
	L0068998	637833.60	4270500.09	10.26	0.00	0.00170	8.44		3.93	1.93
	L0068999	637837.96	4270507.32	10.32	0.00	0.00170	8.44		3.93	1.93
	L0069000	637842.32	4270514.55	10.36	0.00	0.00170	8.44		3.93	1.93
	L0069001	637846.68	4270521.77	10.36	0.00	0.00170	8.44		3.93	1.93
	L0069002	637851.04	4270529.00	10.36	0.00	0.00170	8.44		3.93	1.93
	L0069003	637855.40	4270536.23	10.37	0.00	0.00170	8.44		3.93	1.93
	L0069004	637859.76	4270543.46	10.42	0.00	0.00170	8.44		3.93	1.93
	L0069005	637864.12	4270550.68	10.51	0.00	0.00170	8.44		3.93	1.93
	L0069006	637868.48	4270557.91	10.58	0.00	0.00170	8.44		3.93	1.93
	L0069007	637872.83	4270565.14	10.63	0.00	0.00170	8.44		3.93	1.93
	L0069008	637877.19	4270572.36	10.66	0.00	0.00170	8.44		3.93	1.93
	L0069009	637881.89	4270579.36	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069010	637887.26	4270585.86	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069011	637892.64	4270592.36	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069012	637898.02	4270598.87	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069013	637903.40	4270605.37	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069014	637908.78	4270611.88	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069015	637914.16	4270618.38	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069016	637919.53	4270624.89	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069017	637924.91	4270631.39	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069018	637930.29	4270637.90	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069019	637935.67	4270644.40	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069020	637941.05	4270650.90	10.67	0.00	0.00170	8.44		3.93	1.93

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
NS_SLINE1	L0069021	637946.43	4270657.41	10.66	0.00	0.00170	8.44		3.93	1.93
	L0069022	637951.80	4270663.91	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069023	637957.18	4270670.42	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069024	637963.50	4270675.86	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069025	637970.61	4270680.41	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069026	637977.72	4270684.96	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069027	637984.83	4270689.50	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069028	637991.94	4270694.05	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069029	637999.05	4270698.59	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069030	638006.16	4270703.14	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069031	638013.28	4270707.68	10.67	0.00	0.00170	8.44		3.93	1.93
	L0069032	638020.39	4270712.23	10.67	0.00	0.00170	8.44		3.93	1.93

Source Pathway

Building Downwash Information

Option not in use

Emission Rate Units for Output

For Concentration

Unit Factor:	1E6
Emission Unit Label:	GRAMS/SEC
Concentration Unit Label:	MICROGRAMS/M**3

Source Groups

Source Group ID: Volume	List of Sources in Group (Source Range or Single Sources)
	VOL3673
	VOL3674
	VOL3675
	VOL3676
	VOL3874
	VOL3875
	VOL3876
	VOL3877
	VOL3878
	VOL3879
	VOL3880
	VOL4075
	VOL4076
	VOL4077
	VOL4078
	VOL4079
	VOL4080
	VOL4081
	VOL4082
	VOL4083
	VOL4276
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	VOL4278
	VOL4279
	VOL4280
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	VOL4283
	VOL4284
	VOL4285
	VOL4286
	VOL4478
	VOL4479
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	VOL4487
	VOL4488
	VOL4680
	VOL4681

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	VOL13579
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	VOL13582
	VOL13778
	VOL13779
	VOL13780
	VOL13781
	VOL13782
	VOL13783
	VOL13980
	VOL13981
	VOL13982
	VOL13983
	VOL13984
	VOL14183
	VOL14184
	VOL14185
	VOL14385
	VOL14386

Source Group ID: **Sline**	List of Sources in Group (Source Range or Single Sources)
	NS_SLINE1
	STH_SLINE3

Source Group ID: **ALL**	List of Sources in Group (Source Range or Single Sources)
	All Sources Included

Variable Emissions

Source Pathway

Hourly Emission Rate Variation

Scenario: Sline

Source ID:	NS_SLINE1					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	STH_SLINE3					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Scenario: Volume

Source ID:	VOL3673					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL3674					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL3675					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL3676					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL3874					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL3875						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3876**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3877**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3878**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3879**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL3880**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4075**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4076**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL4076						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4077**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4078**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4079**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4080**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4081**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4082**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4083**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL4276					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4277					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4278					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4279					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4280					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4281					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4282					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4283					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL4283						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4284**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4285**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4286**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4478**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4479**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4480**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4481**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL4481						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4482**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4483**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4484**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4485**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4486**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4487**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4488**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL4680						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4681**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4682**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4683**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4684**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4685**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4686**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4687**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL4687						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4688**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4689**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4690**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4882**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4883**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4884**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL4885**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL4886					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4887					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4888					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4889					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4890					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4891					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL4892					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL5085					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL5085						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5086**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5087**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5088**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5089**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5090**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5091**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5092**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL5092						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5093**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5094**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5287**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5288**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5289**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5290**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5291**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL5292						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5293**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5294**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5295**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5296**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5297**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5490**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5491**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL5491						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5492**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5493**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5494**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5495**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5496**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5497**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5498**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL5499						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5693**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5694**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5695**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5696**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5697**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5698**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5699**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL5699						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5700**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5701**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5895**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5896**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5897**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5898**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5899**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL5899						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5900**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5901**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5902**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL5903**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6097**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6098**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6099**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL6100						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6101**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6102**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6103**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6104**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6105**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6298**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6299**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL6299						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6300**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6301**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6302**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6303**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6304**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6305**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6306**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL6307						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6498**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6499**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6500**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6501**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6502**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6503**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6504**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL6504						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6505**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6506**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6507**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6508**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6509**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6699**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6700**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL6700						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6701**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6702**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6703**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6704**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6705**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6706**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6707**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL6708						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6709**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6710**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6711**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6900**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6901**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6902**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6903**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source ID:	VOL6903						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6907**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6908**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6909**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6910**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6911**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6912**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL6913**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL7101						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7102**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7103**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7109**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7110**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7111**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7112**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7113**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL7113						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7114**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7115**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7302**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7303**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7311**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7312**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7313**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL7313						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7314**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7315**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7316**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7317**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7513**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7514**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7515**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL7516						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7517**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7518**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7519**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7716**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7717**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7718**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7719**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source ID:	VOL7719						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7720**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7721**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7918**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7919**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7920**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7921**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL7922**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL7923						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8120**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8121**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8122**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8123**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8124**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8125**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8322**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL8322						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8323**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8324**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8325**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8326**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8327**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8524**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8525**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL8525						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8526**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8527**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8528**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8529**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8726**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8727**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8728**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL8729						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8730**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8731**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8928**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8929**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8930**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8931**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8932**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL8932						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL8933**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9130**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9131**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9132**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9133**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9134**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9135**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL9332						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9333**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9334**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9335**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9336**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9337**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9534**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9535**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL9535						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9536**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9537**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9538**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9539**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9736**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9737**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9738**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source Pathway

Source ID:	VOL9738						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9739**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9740**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9741**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9938**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9939**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9940**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9941**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL9942						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL9943**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10140**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10141**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10142**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10143**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10144**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10145**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source ID:	VOL10145					
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10342					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10343					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10344					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10345					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10346					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10347					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10544					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL10545						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10546**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10547**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10548**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10549**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10746**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10747**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10748**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL10748						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10749**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10750**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10751**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10948**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10949**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10950**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL10951**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source ID:	VOL10951						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10952						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL10953						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11150						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11151						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11152						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11153						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11154						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11155						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11352						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11353						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11354						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11355						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11356						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11357						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL11554						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL11554					
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11555**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11556**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11557**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11558**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11559**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11756**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11757**					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL11758						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11759**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11760**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11761**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11958**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11959**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11960**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11961**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL11961						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11962**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL11963**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12160**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12161**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12162**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12163**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12164**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source ID:	VOL12164						
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12165						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12362						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12363						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12364						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12365						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12366						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12367						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL12564						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12565**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12566**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12567**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12568**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12569**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12766**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL12767**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL12767					
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12768					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12769					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12770					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12771					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12772					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12969					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12970					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL12971					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12972					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12973					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL12974					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13171					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13172					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13173					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13174					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL13174						
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13175**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13176**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13177**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13373**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13374**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13375**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13376**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00

Source ID:	VOL13376					
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13377					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13378					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13379					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13380					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13576					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13577					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13578					
1 to 6	0.00	0.00	0.00	0.00	0.00	0.00
7 to 12	1.00	1.00	1.00	1.00	1.00	1.00
13 to 18	1.00	1.00	1.00	1.00	1.00	0.00
19 to 24	0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL13579						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13580**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13581**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13582**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13778**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13779**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13780**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13781**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00

Source Pathway

Source ID:	VOL13781						
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13782**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13783**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13980**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13981**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13982**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13983**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00
Source ID:	**VOL13984**						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source Pathway

Source ID:	VOL14183						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14184						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14185						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14385						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Source ID:	VOL14386						
1 to 6		0.00	0.00	0.00	0.00	0.00	0.00
7 to 12		1.00	1.00	1.00	1.00	1.00	1.00
13 to 18		1.00	1.00	1.00	1.00	1.00	0.00
19 to 24		0.00	0.00	0.00	0.00	0.00	0.00

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	636686.16	4269592.29	UCART1	10.96	
2	636726.16	4269592.29	UCART1	10.99	
3	636766.16	4269592.29	UCART1	11.98	
4	637126.16	4269592.29	UCART1	10.44	
5	637166.16	4269592.29	UCART1	10.27	
6	637206.16	4269592.29	UCART1	9.93	
7	637246.16	4269592.29	UCART1	9.53	
8	637286.16	4269592.29	UCART1	9.12	
9	637326.16	4269592.29	UCART1	8.72	
10	638446.16	4269592.29	UCART1	8.84	
11	638526.16	4269592.29	UCART1	8.91	
12	636766.16	4269632.29	UCART1	11.89	
13	637166.16	4269632.29	UCART1	10.05	
14	637206.16	4269632.29	UCART1	9.76	
15	637246.16	4269632.29	UCART1	9.35	
16	637286.16	4269632.29	UCART1	8.95	
17	637326.16	4269632.29	UCART1	8.54	
18	637726.16	4269632.29	UCART1	8.50	
19	637766.16	4269632.29	UCART1	8.53	
20	637806.16	4269632.29	UCART1	8.61	
21	637846.16	4269632.29	UCART1	8.71	
22	637886.16	4269632.29	UCART1	8.84	
23	637926.16	4269632.29	UCART1	8.91	
24	637966.16	4269632.29	UCART1	9.02	
25	638006.16	4269632.29	UCART1	9.03	
26	638046.16	4269632.29	UCART1	9.14	
27	638086.16	4269632.29	UCART1	9.14	
28	638126.16	4269632.29	UCART1	9.14	
29	638166.16	4269632.29	UCART1	9.14	
30	638206.16	4269632.29	UCART1	9.14	

31	638246.16	4269632.29	UCART1	9.14
32	638286.16	4269632.29	UCART1	9.09
33	638326.16	4269632.29	UCART1	9.02
34	638366.16	4269632.29	UCART1	9.02
35	638406.16	4269632.29	UCART1	9.02
36	638446.16	4269632.29	UCART1	9.02
37	638486.16	4269632.29	UCART1	9.14
38	638526.16	4269632.29	UCART1	9.14
39	638566.16	4269632.29	UCART1	9.14
40	636686.16	4269672.29	UCART1	11.30
41	636726.16	4269672.29	UCART1	11.56
42	637206.16	4269672.29	UCART1	9.63
43	637246.16	4269672.29	UCART1	9.22
44	637286.16	4269672.29	UCART1	8.82
45	637326.16	4269672.29	UCART1	8.41
46	637366.16	4269672.29	UCART1	8.02
47	637686.16	4269672.29	UCART1	8.35
48	637766.16	4269672.29	UCART1	8.81
49	637806.16	4269672.29	UCART1	8.82
50	637846.16	4269672.29	UCART1	8.84
51	637886.16	4269672.29	UCART1	9.12
52	637926.16	4269672.29	UCART1	9.13
53	637966.16	4269672.29	UCART1	9.14
54	638006.16	4269672.29	UCART1	9.14
55	638046.16	4269672.29	UCART1	9.14
56	638086.16	4269672.29	UCART1	9.14
57	638126.16	4269672.29	UCART1	9.14
58	638166.16	4269672.29	UCART1	9.14
59	638206.16	4269672.29	UCART1	9.14
60	638246.16	4269672.29	UCART1	9.14
61	638286.16	4269672.29	UCART1	9.14
62	638326.16	4269672.29	UCART1	9.14
63	638366.16	4269672.29	UCART1	9.14
64	638406.16	4269672.29	UCART1	9.14
65	638446.16	4269672.29	UCART1	9.14
66	638486.16	4269672.29	UCART1	9.14
67	638526.16	4269672.29	UCART1	9.14
68	638566.16	4269672.29	UCART1	9.14

69	636686.16	4269712.29	UCART1	11.58
70	636726.16	4269712.29	UCART1	11.71
71	636766.16	4269712.29	UCART1	11.94
72	637286.16	4269712.29	UCART1	8.74
73	637326.16	4269712.29	UCART1	8.37
74	637366.16	4269712.29	UCART1	8.00
75	637686.16	4269712.29	UCART1	8.66
76	637766.16	4269712.29	UCART1	8.91
77	637806.16	4269712.29	UCART1	8.91
78	637846.16	4269712.29	UCART1	9.08
79	637886.16	4269712.29	UCART1	9.22
80	637926.16	4269712.29	UCART1	9.22
81	637966.16	4269712.29	UCART1	9.39
82	638006.16	4269712.29	UCART1	9.45
83	638046.16	4269712.29	UCART1	9.45
84	638086.16	4269712.29	UCART1	9.45
85	638126.16	4269712.29	UCART1	9.45
86	638166.16	4269712.29	UCART1	9.45
87	638206.16	4269712.29	UCART1	9.45
88	638246.16	4269712.29	UCART1	9.45
89	638286.16	4269712.29	UCART1	9.36
90	638326.16	4269712.29	UCART1	9.22
91	638366.16	4269712.29	UCART1	9.22
92	638406.16	4269712.29	UCART1	9.22
93	638446.16	4269712.29	UCART1	9.22
94	638486.16	4269712.29	UCART1	9.22
95	638526.16	4269712.29	UCART1	9.22
96	638566.16	4269712.29	UCART1	9.39
97	636646.16	4269752.29	UCART1	11.50
98	636686.16	4269752.29	UCART1	11.60
99	636726.16	4269752.29	UCART1	11.81
100	636766.16	4269752.29	UCART1	12.11
101	636806.16	4269752.29	UCART1	11.43
102	637086.16	4269752.29	UCART1	10.85
103	637126.16	4269752.29	UCART1	10.31
104	637286.16	4269752.29	UCART1	8.51
105	637326.16	4269752.29	UCART1	8.16
106	637686.16	4269752.29	UCART1	8.83

107	637726.16	4269752.29	UCART1	9.02
108	637766.16	4269752.29	UCART1	9.14
109	637806.16	4269752.29	UCART1	9.22
110	637846.16	4269752.29	UCART1	9.32
111	637886.16	4269752.29	UCART1	9.45
112	637926.16	4269752.29	UCART1	9.45
113	637966.16	4269752.29	UCART1	9.45
114	638006.16	4269752.29	UCART1	9.45
115	638046.16	4269752.29	UCART1	9.45
116	638086.16	4269752.29	UCART1	9.45
117	638126.16	4269752.29	UCART1	9.45
118	638166.16	4269752.29	UCART1	9.45
119	638206.16	4269752.29	UCART1	9.45
120	638246.16	4269752.29	UCART1	9.45
121	638286.16	4269752.29	UCART1	9.45
122	638326.16	4269752.29	UCART1	9.45
123	638366.16	4269752.29	UCART1	9.45
124	638406.16	4269752.29	UCART1	9.45
125	638446.16	4269752.29	UCART1	9.45
126	638486.16	4269752.29	UCART1	9.45
127	638526.16	4269752.29	UCART1	9.45
128	638566.16	4269752.29	UCART1	9.45
129	636646.16	4269792.29	UCART1	11.78
130	636686.16	4269792.29	UCART1	11.86
131	636726.16	4269792.29	UCART1	11.89
132	636766.16	4269792.29	UCART1	12.11
133	636806.16	4269792.29	UCART1	12.03
134	636846.16	4269792.29	UCART1	11.83
135	637046.16	4269792.29	UCART1	11.26
136	637086.16	4269792.29	UCART1	10.74
137	637126.16	4269792.29	UCART1	10.14
138	637166.16	4269792.29	UCART1	9.73
139	637286.16	4269792.29	UCART1	8.51
140	637326.16	4269792.29	UCART1	8.11
141	637646.16	4269792.29	UCART1	9.14
142	637686.16	4269792.29	UCART1	9.41
143	637726.16	4269792.29	UCART1	9.63
144	637766.16	4269792.29	UCART1	9.42

145	637806.16	4269792.29	UCART1	9.43
146	637846.16	4269792.29	UCART1	9.45
147	637886.16	4269792.29	UCART1	9.73
148	637926.16	4269792.29	UCART1	9.73
149	637966.16	4269792.29	UCART1	9.73
150	638006.16	4269792.29	UCART1	9.73
151	638046.16	4269792.29	UCART1	9.73
152	638086.16	4269792.29	UCART1	9.73
153	638126.16	4269792.29	UCART1	9.73
154	638166.16	4269792.29	UCART1	9.73
155	638206.16	4269792.29	UCART1	9.73
156	638246.16	4269792.29	UCART1	9.71
157	638286.16	4269792.29	UCART1	9.45
158	638326.16	4269792.29	UCART1	9.45
159	638366.16	4269792.29	UCART1	9.45
160	638406.16	4269792.29	UCART1	9.45
161	638446.16	4269792.29	UCART1	9.45
162	638526.16	4269792.29	UCART1	9.45
163	638566.16	4269792.29	UCART1	9.45
164	636646.16	4269832.29	UCART1	12.03
165	636686.16	4269832.29	UCART1	12.18
166	636726.16	4269832.29	UCART1	11.93
167	636766.16	4269832.29	UCART1	12.06
168	636806.16	4269832.29	UCART1	12.12
169	636846.16	4269832.29	UCART1	11.79
170	637006.16	4269832.29	UCART1	11.85
171	637046.16	4269832.29	UCART1	11.26
172	637086.16	4269832.29	UCART1	10.72
173	637126.16	4269832.29	UCART1	10.14
174	637166.16	4269832.29	UCART1	9.73
175	637206.16	4269832.29	UCART1	9.32
176	637246.16	4269832.29	UCART1	8.92
177	637286.16	4269832.29	UCART1	8.42
178	637326.16	4269832.29	UCART1	7.89
179	637646.16	4269832.29	UCART1	9.48
180	637686.16	4269832.29	UCART1	10.08
181	637726.16	4269832.29	UCART1	10.27
182	637766.16	4269832.29	UCART1	10.13

183	637806.16	4269832.29	UCART1	10.01
184	637846.16	4269832.29	UCART1	9.83
185	637886.16	4269832.29	UCART1	9.75
186	637926.16	4269832.29	UCART1	9.78
187	637966.16	4269832.29	UCART1	9.83
188	638006.16	4269832.29	UCART1	9.83
189	638046.16	4269832.29	UCART1	9.83
190	638086.16	4269832.29	UCART1	9.83
191	638126.16	4269832.29	UCART1	9.83
192	638166.16	4269832.29	UCART1	9.83
193	638206.16	4269832.29	UCART1	9.83
194	638246.16	4269832.29	UCART1	9.75
195	638286.16	4269832.29	UCART1	9.75
196	638326.16	4269832.29	UCART1	9.75
197	638366.16	4269832.29	UCART1	9.74
198	638406.16	4269832.29	UCART1	9.52
199	638446.16	4269832.29	UCART1	9.52
200	638526.16	4269832.29	UCART1	9.52
201	638566.16	4269832.29	UCART1	9.52
202	636646.16	4269872.29	UCART1	12.08
203	636686.16	4269872.29	UCART1	12.19
204	636726.16	4269872.29	UCART1	12.14
205	636766.16	4269872.29	UCART1	12.06
206	636806.16	4269872.29	UCART1	12.07
207	636846.16	4269872.29	UCART1	11.62
208	637006.16	4269872.29	UCART1	11.87
209	637046.16	4269872.29	UCART1	11.24
210	637086.16	4269872.29	UCART1	10.62
211	637126.16	4269872.29	UCART1	10.14
212	637166.16	4269872.29	UCART1	9.73
213	637206.16	4269872.29	UCART1	9.25
214	637246.16	4269872.29	UCART1	8.74
215	637286.16	4269872.29	UCART1	8.21
216	637646.16	4269872.29	UCART1	9.67
217	637686.16	4269872.29	UCART1	10.41
218	637726.16	4269872.29	UCART1	10.67
219	637766.16	4269872.29	UCART1	10.53
220	637806.16	4269872.29	UCART1	10.31

221	637846.16	4269872.29	UCART1	10.10
222	637886.16	4269872.29	UCART1	9.93
223	637926.16	4269872.29	UCART1	9.98
224	637966.16	4269872.29	UCART1	10.06
225	638006.16	4269872.29	UCART1	10.06
226	638046.16	4269872.29	UCART1	10.06
227	638086.16	4269872.29	UCART1	10.19
228	638126.16	4269872.29	UCART1	10.22
229	638166.16	4269872.29	UCART1	10.06
230	638206.16	4269872.29	UCART1	10.06
231	638246.16	4269872.29	UCART1	9.93
232	638286.16	4269872.29	UCART1	9.93
233	638326.16	4269872.29	UCART1	9.80
234	638366.16	4269872.29	UCART1	9.75
235	638406.16	4269872.29	UCART1	9.75
236	638446.16	4269872.29	UCART1	9.75
237	638486.16	4269872.29	UCART1	9.75
238	638526.16	4269872.29	UCART1	9.75
239	638566.16	4269872.29	UCART1	9.75
240	636646.16	4269912.29	UCART1	11.83
241	636686.16	4269912.29	UCART1	11.93
242	636726.16	4269912.29	UCART1	12.19
243	636766.16	4269912.29	UCART1	12.19
244	636806.16	4269912.29	UCART1	12.19
245	637046.16	4269912.29	UCART1	10.98
246	637086.16	4269912.29	UCART1	10.54
247	637126.16	4269912.29	UCART1	9.93
248	637166.16	4269912.29	UCART1	9.45
249	637206.16	4269912.29	UCART1	9.04
250	637246.16	4269912.29	UCART1	8.61
251	637286.16	4269912.29	UCART1	8.21
252	637646.16	4269912.29	UCART1	9.80
253	637686.16	4269912.29	UCART1	10.49
254	637726.16	4269912.29	UCART1	10.67
255	637766.16	4269912.29	UCART1	10.67
256	637806.16	4269912.29	UCART1	10.53
257	637846.16	4269912.29	UCART1	10.34
258	637886.16	4269912.29	UCART1	10.34

259	637926.16	4269912.29	UCART1	10.34
260	637966.16	4269912.29	UCART1	10.34
261	638006.16	4269912.29	UCART1	10.34
262	638046.16	4269912.29	UCART1	10.34
263	638086.16	4269912.29	UCART1	10.36
264	638126.16	4269912.29	UCART1	10.36
265	638166.16	4269912.29	UCART1	10.34
266	638206.16	4269912.29	UCART1	10.34
267	638246.16	4269912.29	UCART1	10.06
268	638286.16	4269912.29	UCART1	10.06
269	638326.16	4269912.29	UCART1	10.04
270	638366.16	4269912.29	UCART1	10.01
271	638406.16	4269912.29	UCART1	9.75
272	638446.16	4269912.29	UCART1	9.75
273	638486.16	4269912.29	UCART1	9.75
274	638526.16	4269912.29	UCART1	9.75
275	638566.16	4269912.29	UCART1	9.75
276	636646.16	4269952.29	UCART1	11.73
277	636686.16	4269952.29	UCART1	11.89
278	636726.16	4269952.29	UCART1	11.98
279	636766.16	4269952.29	UCART1	12.12
280	636806.16	4269952.29	UCART1	11.81
281	637086.16	4269952.29	UCART1	10.24
282	637126.16	4269952.29	UCART1	9.83
283	637166.16	4269952.29	UCART1	9.42
284	637206.16	4269952.29	UCART1	8.95
285	637246.16	4269952.29	UCART1	8.54
286	637286.16	4269952.29	UCART1	7.92
287	637606.16	4269952.29	UCART1	9.37
288	637646.16	4269952.29	UCART1	10.08
289	637686.16	4269952.29	UCART1	10.44
290	637726.16	4269952.29	UCART1	10.67
291	637766.16	4269952.29	UCART1	10.66
292	637806.16	4269952.29	UCART1	10.50
293	637846.16	4269952.29	UCART1	10.36
294	637886.16	4269952.29	UCART1	10.36
295	637926.16	4269952.29	UCART1	10.36
296	637966.16	4269952.29	UCART1	10.42

297	638006.16	4269952.29	UCART1	10.44
298	638046.16	4269952.29	UCART1	10.53
299	638086.16	4269952.29	UCART1	10.67
300	638126.16	4269952.29	UCART1	10.67
301	638166.16	4269952.29	UCART1	10.57
302	638206.16	4269952.29	UCART1	10.44
303	638246.16	4269952.29	UCART1	10.43
304	638286.16	4269952.29	UCART1	10.27
305	638326.16	4269952.29	UCART1	10.08
306	638366.16	4269952.29	UCART1	10.06
307	638406.16	4269952.29	UCART1	10.06
308	638446.16	4269952.29	UCART1	10.06
309	638486.16	4269952.29	UCART1	9.83
310	638526.16	4269952.29	UCART1	9.92
311	638566.16	4269952.29	UCART1	10.06
312	636286.16	4269992.29	UCART1	10.67
313	636326.16	4269992.29	UCART1	10.67
314	636366.16	4269992.29	UCART1	10.67
315	636406.16	4269992.29	UCART1	10.44
316	636606.16	4269992.29	UCART1	11.10
317	636646.16	4269992.29	UCART1	11.50
318	636686.16	4269992.29	UCART1	11.72
319	636726.16	4269992.29	UCART1	11.89
320	636766.16	4269992.29	UCART1	11.76
321	636806.16	4269992.29	UCART1	11.38
322	637086.16	4269992.29	UCART1	10.06
323	637126.16	4269992.29	UCART1	9.79
324	637166.16	4269992.29	UCART1	9.40
325	637206.16	4269992.29	UCART1	8.72
326	637246.16	4269992.29	UCART1	8.31
327	637286.16	4269992.29	UCART1	7.91
328	637606.16	4269992.29	UCART1	9.55
329	637646.16	4269992.29	UCART1	10.06
330	637686.16	4269992.29	UCART1	10.23
331	637806.16	4269992.29	UCART1	10.54
332	637846.16	4269992.29	UCART1	10.54
333	637886.16	4269992.29	UCART1	10.54
334	637926.16	4269992.29	UCART1	10.54

335	637966.16	4269992.29	UCART1	10.63
336	638006.16	4269992.29	UCART1	10.66
337	638046.16	4269992.29	UCART1	10.49
338	638086.16	4269992.29	UCART1	10.62
339	638126.16	4269992.29	UCART1	10.67
340	638166.16	4269992.29	UCART1	10.67
341	638206.16	4269992.29	UCART1	10.67
342	638246.16	4269992.29	UCART1	10.66
343	638286.16	4269992.29	UCART1	10.47
344	638326.16	4269992.29	UCART1	10.27
345	638366.16	4269992.29	UCART1	10.06
346	638406.16	4269992.29	UCART1	10.06
347	638446.16	4269992.29	UCART1	10.06
348	638486.16	4269992.29	UCART1	10.06
349	638526.16	4269992.29	UCART1	10.06
350	638566.16	4269992.29	UCART1	10.06
351	636166.16	4270032.29	UCART1	9.37
352	636246.16	4270032.29	UCART1	10.67
353	636286.16	4270032.29	UCART1	10.67
354	636326.16	4270032.29	UCART1	10.65
355	636366.16	4270032.29	UCART1	10.39
356	636406.16	4270032.29	UCART1	10.37
357	636606.16	4270032.29	UCART1	11.10
358	636646.16	4270032.29	UCART1	11.50
359	636686.16	4270032.29	UCART1	11.58
360	636726.16	4270032.29	UCART1	11.61
361	636766.16	4270032.29	UCART1	11.38
362	636806.16	4270032.29	UCART1	11.23
363	636886.16	4270032.29	UCART1	10.67
364	636926.16	4270032.29	UCART1	10.67
365	636966.16	4270032.29	UCART1	10.68
366	637166.16	4270032.29	UCART1	9.42
367	637206.16	4270032.29	UCART1	8.88
368	637246.16	4270032.29	UCART1	8.31
369	637606.16	4270032.29	UCART1	9.75
370	637646.16	4270032.29	UCART1	10.06
371	637686.16	4270032.29	UCART1	10.18
372	637766.16	4270032.29	UCART1	10.67

373	637806.16	4270032.29	UCART1	10.67
374	637846.16	4270032.29	UCART1	10.67
375	637886.16	4270032.29	UCART1	10.67
376	637926.16	4270032.29	UCART1	10.67
377	637966.16	4270032.29	UCART1	10.46
378	638006.16	4270032.29	UCART1	10.39
379	638046.16	4270032.29	UCART1	10.36
380	638086.16	4270032.29	UCART1	10.38
381	638126.16	4270032.29	UCART1	10.67
382	638206.16	4270032.29	UCART1	10.67
383	638246.16	4270032.29	UCART1	10.67
384	638286.16	4270032.29	UCART1	10.54
385	638326.16	4270032.29	UCART1	10.36
386	638366.16	4270032.29	UCART1	10.06
387	638406.16	4270032.29	UCART1	10.06
388	638446.16	4270032.29	UCART1	10.06
389	638486.16	4270032.29	UCART1	10.06
390	638526.16	4270032.29	UCART1	10.06
391	638566.16	4270032.29	UCART1	10.06
392	636046.16	4270072.29	UCART1	7.85
393	636086.16	4270072.29	UCART1	8.56
394	636126.16	4270072.29	UCART1	8.96
395	636166.16	4270072.29	UCART1	9.37
396	636206.16	4270072.29	UCART1	10.02
397	636246.16	4270072.29	UCART1	10.52
398	636326.16	4270072.29	UCART1	10.36
399	636366.16	4270072.29	UCART1	10.36
400	636406.16	4270072.29	UCART1	10.36
401	636606.16	4270072.29	UCART1	11.07
402	636646.16	4270072.29	UCART1	11.26
403	636686.16	4270072.29	UCART1	11.51
404	636726.16	4270072.29	UCART1	11.41
405	636766.16	4270072.29	UCART1	11.22
406	636806.16	4270072.29	UCART1	10.95
407	636846.16	4270072.29	UCART1	10.67
408	636886.16	4270072.29	UCART1	10.67
409	636926.16	4270072.29	UCART1	10.67
410	636966.16	4270072.29	UCART1	10.67

411	637006.16	4270072.29	UCART1	10.67
412	637046.16	4270072.29	UCART1	10.35
413	637086.16	4270072.29	UCART1	10.10
414	637246.16	4270072.29	UCART1	8.39
415	637606.16	4270072.29	UCART1	10.13
416	637646.16	4270072.29	UCART1	10.13
417	637686.16	4270072.29	UCART1	10.15
418	637726.16	4270072.29	UCART1	10.34
419	637766.16	4270072.29	UCART1	10.43
420	637806.16	4270072.29	UCART1	10.33
421	637846.16	4270072.29	UCART1	10.29
422	637886.16	4270072.29	UCART1	10.29
423	637926.16	4270072.29	UCART1	10.29
424	637966.16	4270072.29	UCART1	10.06
425	638006.16	4270072.29	UCART1	9.99
426	638046.16	4270072.29	UCART1	10.15
427	638086.16	4270072.29	UCART1	10.34
428	638126.16	4270072.29	UCART1	10.39
429	638166.16	4270072.29	UCART1	10.67
430	638206.16	4270072.29	UCART1	10.67
431	638326.16	4270072.29	UCART1	10.44
432	638366.16	4270072.29	UCART1	10.34
433	638406.16	4270072.29	UCART1	10.06
434	638446.16	4270072.29	UCART1	10.06
435	638486.16	4270072.29	UCART1	10.06
436	638526.16	4270072.29	UCART1	10.23
437	638566.16	4270072.29	UCART1	10.36
438	635926.16	4270112.29	UCART1	7.82
439	635966.16	4270112.29	UCART1	7.62
440	636006.16	4270112.29	UCART1	7.69
441	636046.16	4270112.29	UCART1	8.02
442	636086.16	4270112.29	UCART1	8.57
443	636126.16	4270112.29	UCART1	9.14
444	636166.16	4270112.29	UCART1	9.42
445	636206.16	4270112.29	UCART1	9.76
446	636246.16	4270112.29	UCART1	9.95
447	636326.16	4270112.29	UCART1	10.20
448	636406.16	4270112.29	UCART1	10.36

449	636446.16	4270112.29	UCART1	10.67
450	636606.16	4270112.29	UCART1	10.97
451	636646.16	4270112.29	UCART1	11.07
452	636686.16	4270112.29	UCART1	11.28
453	636726.16	4270112.29	UCART1	11.21
454	636766.16	4270112.29	UCART1	11.01
455	636806.16	4270112.29	UCART1	10.79
456	636846.16	4270112.29	UCART1	10.67
457	636886.16	4270112.29	UCART1	10.67
458	636926.16	4270112.29	UCART1	10.67
459	636966.16	4270112.29	UCART1	10.67
460	637006.16	4270112.29	UCART1	10.67
461	637046.16	4270112.29	UCART1	10.54
462	637086.16	4270112.29	UCART1	10.42
463	637166.16	4270112.29	UCART1	9.72
464	637206.16	4270112.29	UCART1	9.12
465	637246.16	4270112.29	UCART1	8.52
466	637606.16	4270112.29	UCART1	10.54
467	637646.16	4270112.29	UCART1	10.35
468	637686.16	4270112.29	UCART1	10.23
469	637726.16	4270112.29	UCART1	10.33
470	637806.16	4270112.29	UCART1	10.13
471	637846.16	4270112.29	UCART1	9.93
472	637886.16	4270112.29	UCART1	9.88
473	637926.16	4270112.29	UCART1	9.88
474	637966.16	4270112.29	UCART1	9.66
475	638006.16	4270112.29	UCART1	9.60
476	638046.16	4270112.29	UCART1	9.95
477	638086.16	4270112.29	UCART1	10.28
478	638126.16	4270112.29	UCART1	10.55
479	638166.16	4270112.29	UCART1	10.67
480	638206.16	4270112.29	UCART1	10.67
481	638326.16	4270112.29	UCART1	10.44
482	638366.16	4270112.29	UCART1	10.35
483	638406.16	4270112.29	UCART1	10.16
484	638446.16	4270112.29	UCART1	10.06
485	638486.16	4270112.29	UCART1	10.24
486	638526.16	4270112.29	UCART1	10.36

487	638566.16	4270112.29	UCART1	10.36
488	635966.16	4270152.29	UCART1	7.90
489	636006.16	4270152.29	UCART1	8.02
490	636046.16	4270152.29	UCART1	8.43
491	636086.16	4270152.29	UCART1	8.84
492	636126.16	4270152.29	UCART1	9.15
493	636166.16	4270152.29	UCART1	9.38
494	636206.16	4270152.29	UCART1	9.50
495	636246.16	4270152.29	UCART1	9.76
496	636286.16	4270152.29	UCART1	9.99
497	636326.16	4270152.29	UCART1	10.06
498	636406.16	4270152.29	UCART1	10.36
499	636446.16	4270152.29	UCART1	10.67
500	636606.16	4270152.29	UCART1	10.97
501	636646.16	4270152.29	UCART1	10.97
502	636686.16	4270152.29	UCART1	11.00
503	636726.16	4270152.29	UCART1	10.99
504	636766.16	4270152.29	UCART1	10.97
505	636846.16	4270152.29	UCART1	10.67
506	636886.16	4270152.29	UCART1	10.67
507	636926.16	4270152.29	UCART1	10.67
508	636966.16	4270152.29	UCART1	10.67
509	637006.16	4270152.29	UCART1	10.67
510	637046.16	4270152.29	UCART1	10.67
511	637086.16	4270152.29	UCART1	10.66
512	637166.16	4270152.29	UCART1	10.01
513	637206.16	4270152.29	UCART1	9.48
514	637246.16	4270152.29	UCART1	8.69
515	637606.16	4270152.29	UCART1	10.67
516	637646.16	4270152.29	UCART1	10.64
517	637686.16	4270152.29	UCART1	10.64
518	637726.16	4270152.29	UCART1	10.64
519	637766.16	4270152.29	UCART1	10.64
520	637846.16	4270152.29	UCART1	9.55
521	637886.16	4270152.29	UCART1	9.48
522	637926.16	4270152.29	UCART1	9.48
523	637966.16	4270152.29	UCART1	9.46
524	638006.16	4270152.29	UCART1	9.19

525	638046.16	4270152.29	UCART1	9.94
526	638086.16	4270152.29	UCART1	10.43
527	638126.16	4270152.29	UCART1	10.67
528	638166.16	4270152.29	UCART1	10.67
529	638206.16	4270152.29	UCART1	10.67
530	638246.16	4270152.29	UCART1	10.67
531	638286.16	4270152.29	UCART1	10.67
532	638326.16	4270152.29	UCART1	10.44
533	638366.16	4270152.29	UCART1	10.36
534	638406.16	4270152.29	UCART1	10.35
535	638486.16	4270152.29	UCART1	10.36
536	638526.16	4270152.29	UCART1	10.48
537	638566.16	4270152.29	UCART1	10.64
538	635966.16	4270192.29	UCART1	8.24
539	636006.16	4270192.29	UCART1	8.40
540	636046.16	4270192.29	UCART1	8.76
541	636086.16	4270192.29	UCART1	9.07
542	636166.16	4270192.29	UCART1	9.31
543	636206.16	4270192.29	UCART1	9.45
544	636246.16	4270192.29	UCART1	9.57
545	636286.16	4270192.29	UCART1	9.98
546	636326.16	4270192.29	UCART1	10.06
547	636366.16	4270192.29	UCART1	10.23
548	636406.16	4270192.29	UCART1	10.36
549	636446.16	4270192.29	UCART1	10.60
550	636566.16	4270192.29	UCART1	10.68
551	636606.16	4270192.29	UCART1	10.90
552	636646.16	4270192.29	UCART1	10.95
553	636686.16	4270192.29	UCART1	10.97
554	636726.16	4270192.29	UCART1	10.94
555	636806.16	4270192.29	UCART1	10.67
556	636846.16	4270192.29	UCART1	10.67
557	636886.16	4270192.29	UCART1	10.67
558	636926.16	4270192.29	UCART1	10.67
559	636966.16	4270192.29	UCART1	10.67
560	637006.16	4270192.29	UCART1	10.67
561	637046.16	4270192.29	UCART1	10.67
562	637086.16	4270192.29	UCART1	10.67

563	637166.16	4270192.29	UCART1	10.40
564	637206.16	4270192.29	UCART1	9.78
565	637246.16	4270192.29	UCART1	8.92
566	637566.16	4270192.29	UCART1	10.18
567	637686.16	4270192.29	UCART1	10.50
568	637726.16	4270192.29	UCART1	10.31
569	637766.16	4270192.29	UCART1	9.94
570	637806.16	4270192.29	UCART1	9.32
571	637846.16	4270192.29	UCART1	9.14
572	637886.16	4270192.29	UCART1	9.37
573	637926.16	4270192.29	UCART1	9.28
574	637966.16	4270192.29	UCART1	9.20
575	638006.16	4270192.29	UCART1	9.53
576	638046.16	4270192.29	UCART1	9.95
577	638086.16	4270192.29	UCART1	10.59
578	638126.16	4270192.29	UCART1	10.67
579	638166.16	4270192.29	UCART1	10.67
580	638206.16	4270192.29	UCART1	10.67
581	638246.16	4270192.29	UCART1	10.67
582	638286.16	4270192.29	UCART1	10.67
583	638326.16	4270192.29	UCART1	10.67
584	638366.16	4270192.29	UCART1	10.43
585	638406.16	4270192.29	UCART1	10.36
586	638446.16	4270192.29	UCART1	10.36
587	638486.16	4270192.29	UCART1	10.36
588	635966.16	4270232.29	UCART1	8.43
589	636006.16	4270232.29	UCART1	8.71
590	636046.16	4270232.29	UCART1	8.81
591	636086.16	4270232.29	UCART1	8.85
592	636166.16	4270232.29	UCART1	9.14
593	636206.16	4270232.29	UCART1	9.29
594	636246.16	4270232.29	UCART1	9.57
595	636286.16	4270232.29	UCART1	9.98
596	636326.16	4270232.29	UCART1	10.24
597	636366.16	4270232.29	UCART1	10.36
598	636406.16	4270232.29	UCART1	10.49
599	636446.16	4270232.29	UCART1	10.55
600	636566.16	4270232.29	UCART1	10.67

601	636606.16	4270232.29	UCART1	10.67
602	636646.16	4270232.29	UCART1	10.76
603	636686.16	4270232.29	UCART1	10.80
604	636766.16	4270232.29	UCART1	10.67
605	636806.16	4270232.29	UCART1	10.67
606	636846.16	4270232.29	UCART1	10.67
607	636886.16	4270232.29	UCART1	10.67
608	636926.16	4270232.29	UCART1	10.67
609	636966.16	4270232.29	UCART1	10.67
610	637006.16	4270232.29	UCART1	10.67
611	637046.16	4270232.29	UCART1	10.67
612	637086.16	4270232.29	UCART1	10.67
613	637206.16	4270232.29	UCART1	10.38
614	637246.16	4270232.29	UCART1	10.00
615	637566.16	4270232.29	UCART1	10.36
616	637606.16	4270232.29	UCART1	10.36
617	637726.16	4270232.29	UCART1	10.14
618	637766.16	4270232.29	UCART1	9.73
619	637806.16	4270232.29	UCART1	9.40
620	637886.16	4270232.29	UCART1	9.14
621	637926.16	4270232.29	UCART1	9.14
622	637966.16	4270232.29	UCART1	9.37
623	638006.16	4270232.29	UCART1	10.33
624	638046.16	4270232.29	UCART1	10.47
625	638086.16	4270232.29	UCART1	10.59
626	638126.16	4270232.29	UCART1	10.67
627	638166.16	4270232.29	UCART1	10.67
628	638206.16	4270232.29	UCART1	10.67
629	638246.16	4270232.29	UCART1	10.67
630	638286.16	4270232.29	UCART1	10.67
631	638326.16	4270232.29	UCART1	10.67
632	638366.16	4270232.29	UCART1	10.66
633	638406.16	4270232.29	UCART1	10.47
634	638446.16	4270232.29	UCART1	10.36
635	638486.16	4270232.29	UCART1	10.36
636	638526.16	4270232.29	UCART1	10.43
637	635966.16	4270272.29	UCART1	9.09
638	636006.16	4270272.29	UCART1	9.12

639	636086.16	4270272.29	UCART1	9.12
640	636126.16	4270272.29	UCART1	9.14
641	636166.16	4270272.29	UCART1	9.14
642	636206.16	4270272.29	UCART1	9.44
643	636366.16	4270272.29	UCART1	10.36
644	636406.16	4270272.29	UCART1	10.59
645	636446.16	4270272.29	UCART1	10.67
646	636566.16	4270272.29	UCART1	10.67
647	636606.16	4270272.29	UCART1	10.67
648	636646.16	4270272.29	UCART1	10.67
649	636686.16	4270272.29	UCART1	10.67
650	636726.16	4270272.29	UCART1	10.67
651	636766.16	4270272.29	UCART1	10.67
652	636806.16	4270272.29	UCART1	10.67
653	636846.16	4270272.29	UCART1	10.67
654	636886.16	4270272.29	UCART1	10.67
655	636926.16	4270272.29	UCART1	10.67
656	636966.16	4270272.29	UCART1	10.67
657	637006.16	4270272.29	UCART1	10.67
658	637046.16	4270272.29	UCART1	10.67
659	637566.16	4270272.29	UCART1	10.53
660	637606.16	4270272.29	UCART1	10.36
661	637646.16	4270272.29	UCART1	10.36
662	637726.16	4270272.29	UCART1	10.07
663	637766.16	4270272.29	UCART1	9.75
664	637806.16	4270272.29	UCART1	9.61
665	637846.16	4270272.29	UCART1	9.43
666	637926.16	4270272.29	UCART1	9.14
667	637966.16	4270272.29	UCART1	9.16
668	638006.16	4270272.29	UCART1	9.82
669	638046.16	4270272.29	UCART1	10.49
670	638086.16	4270272.29	UCART1	11.07
671	638126.16	4270272.29	UCART1	10.93
672	638166.16	4270272.29	UCART1	10.67
673	638206.16	4270272.29	UCART1	10.67
674	638246.16	4270272.29	UCART1	10.67
675	638286.16	4270272.29	UCART1	10.67
676	638326.16	4270272.29	UCART1	10.67

677	638366.16	4270272.29	UCART1	10.67
678	638406.16	4270272.29	UCART1	10.66
679	638446.16	4270272.29	UCART1	10.64
680	638486.16	4270272.29	UCART1	10.64
681	638526.16	4270272.29	UCART1	10.65
682	635966.16	4270312.29	UCART1	9.14
683	636006.16	4270312.29	UCART1	9.14
684	636046.16	4270312.29	UCART1	9.14
685	636086.16	4270312.29	UCART1	9.14
686	636126.16	4270312.29	UCART1	9.14
687	636166.16	4270312.29	UCART1	9.14
688	636206.16	4270312.29	UCART1	9.47
689	636286.16	4270312.29	UCART1	10.28
690	636326.16	4270312.29	UCART1	10.45
691	636366.16	4270312.29	UCART1	10.67
692	636406.16	4270312.29	UCART1	10.67
693	636446.16	4270312.29	UCART1	10.67
694	636566.16	4270312.29	UCART1	10.67
695	636606.16	4270312.29	UCART1	10.67
696	636646.16	4270312.29	UCART1	10.67
697	636686.16	4270312.29	UCART1	10.67
698	636726.16	4270312.29	UCART1	10.67
699	636766.16	4270312.29	UCART1	10.67
700	636806.16	4270312.29	UCART1	10.66
701	636846.16	4270312.29	UCART1	10.59
702	636886.16	4270312.29	UCART1	10.42
703	636926.16	4270312.29	UCART1	10.36
704	636966.16	4270312.29	UCART1	10.36
705	637006.16	4270312.29	UCART1	10.59
706	637046.16	4270312.29	UCART1	10.67
707	637086.16	4270312.29	UCART1	10.64
708	637126.16	4270312.29	UCART1	10.37
709	637166.16	4270312.29	UCART1	10.52
710	637606.16	4270312.29	UCART1	10.42
711	637646.16	4270312.29	UCART1	10.36
712	637686.16	4270312.29	UCART1	10.24
713	637766.16	4270312.29	UCART1	9.75
714	637806.16	4270312.29	UCART1	9.66

715	637846.16	4270312.29	UCART1	9.47
716	637886.16	4270312.29	UCART1	9.43
717	637966.16	4270312.29	UCART1	9.14
718	638006.16	4270312.29	UCART1	9.46
719	638046.16	4270312.29	UCART1	10.79
720	638086.16	4270312.29	UCART1	11.37
721	638126.16	4270312.29	UCART1	11.35
722	638166.16	4270312.29	UCART1	11.23
723	638206.16	4270312.29	UCART1	11.05
724	638246.16	4270312.29	UCART1	11.05
725	638286.16	4270312.29	UCART1	11.02
726	638326.16	4270312.29	UCART1	10.80
727	638366.16	4270312.29	UCART1	10.67
728	638406.16	4270312.29	UCART1	10.67
729	638446.16	4270312.29	UCART1	10.67
730	638486.16	4270312.29	UCART1	10.67
731	638566.16	4270312.29	UCART1	10.67
732	635966.16	4270352.29	UCART1	9.14
733	636006.16	4270352.29	UCART1	9.14
734	636046.16	4270352.29	UCART1	9.14
735	636086.16	4270352.29	UCART1	9.14
736	636126.16	4270352.29	UCART1	9.14
737	636166.16	4270352.29	UCART1	9.14
738	636206.16	4270352.29	UCART1	9.47
739	636286.16	4270352.29	UCART1	10.28
740	636326.16	4270352.29	UCART1	10.67
741	636366.16	4270352.29	UCART1	10.67
742	636406.16	4270352.29	UCART1	10.67
743	636446.16	4270352.29	UCART1	10.67
744	636566.16	4270352.29	UCART1	10.67
745	636606.16	4270352.29	UCART1	10.67
746	636646.16	4270352.29	UCART1	10.67
747	636686.16	4270352.29	UCART1	10.67
748	636726.16	4270352.29	UCART1	10.67
749	636766.16	4270352.29	UCART1	10.67
750	636806.16	4270352.29	UCART1	10.48
751	636846.16	4270352.29	UCART1	10.36
752	636886.16	4270352.29	UCART1	10.36

753	636926.16	4270352.29	UCART1	10.36
754	636966.16	4270352.29	UCART1	10.36
755	637006.16	4270352.29	UCART1	10.59
756	637046.16	4270352.29	UCART1	10.67
757	637086.16	4270352.29	UCART1	10.54
758	637126.16	4270352.29	UCART1	10.14
759	637166.16	4270352.29	UCART1	10.07
760	637206.16	4270352.29	UCART1	10.04
761	637606.16	4270352.29	UCART1	10.63
762	637646.16	4270352.29	UCART1	10.53
763	637686.16	4270352.29	UCART1	10.31
764	637726.16	4270352.29	UCART1	10.10
765	637806.16	4270352.29	UCART1	9.75
766	637846.16	4270352.29	UCART1	9.66
767	637886.16	4270352.29	UCART1	9.45
768	637926.16	4270352.29	UCART1	9.40
769	637966.16	4270352.29	UCART1	9.32
770	638046.16	4270352.29	UCART1	10.10
771	638086.16	4270352.29	UCART1	11.83
772	638126.16	4270352.29	UCART1	11.92
773	638166.16	4270352.29	UCART1	11.71
774	638206.16	4270352.29	UCART1	11.63
775	638246.16	4270352.29	UCART1	11.60
776	638286.16	4270352.29	UCART1	11.23
777	638326.16	4270352.29	UCART1	11.02
778	638366.16	4270352.29	UCART1	10.67
779	638406.16	4270352.29	UCART1	10.67
780	638446.16	4270352.29	UCART1	10.67
781	638526.16	4270352.29	UCART1	10.67
782	638566.16	4270352.29	UCART1	10.80
783	635966.16	4270392.29	UCART1	9.14
784	636006.16	4270392.29	UCART1	9.14
785	636046.16	4270392.29	UCART1	9.14
786	636086.16	4270392.29	UCART1	8.89
787	636126.16	4270392.29	UCART1	9.14
788	636166.16	4270392.29	UCART1	9.14
789	636206.16	4270392.29	UCART1	9.47
790	636526.16	4270392.29	UCART1	10.67

791	636566.16	4270392.29	UCART1	10.67
792	636606.16	4270392.29	UCART1	10.67
793	636646.16	4270392.29	UCART1	10.67
794	636686.16	4270392.29	UCART1	10.67
795	636726.16	4270392.29	UCART1	10.67
796	636766.16	4270392.29	UCART1	10.67
797	636806.16	4270392.29	UCART1	10.36
798	636846.16	4270392.29	UCART1	10.25
799	636886.16	4270392.29	UCART1	10.09
800	636926.16	4270392.29	UCART1	10.36
801	636966.16	4270392.29	UCART1	10.48
802	637006.16	4270392.29	UCART1	10.66
803	637046.16	4270392.29	UCART1	10.65
804	637086.16	4270392.29	UCART1	10.38
805	637126.16	4270392.29	UCART1	10.14
806	637166.16	4270392.29	UCART1	10.06
807	637206.16	4270392.29	UCART1	10.15
808	637606.16	4270392.29	UCART1	10.67
809	637646.16	4270392.29	UCART1	10.65
810	637686.16	4270392.29	UCART1	10.36
811	637726.16	4270392.29	UCART1	10.14
812	637846.16	4270392.29	UCART1	9.75
813	637886.16	4270392.29	UCART1	9.73
814	637926.16	4270392.29	UCART1	9.73
815	637966.16	4270392.29	UCART1	9.93
816	638006.16	4270392.29	UCART1	9.98
817	638086.16	4270392.29	UCART1	10.76
818	638126.16	4270392.29	UCART1	11.93
819	638166.16	4270392.29	UCART1	12.17
820	638206.16	4270392.29	UCART1	12.17
821	638246.16	4270392.29	UCART1	11.86
822	638286.16	4270392.29	UCART1	11.33
823	638326.16	4270392.29	UCART1	10.98
824	638366.16	4270392.29	UCART1	10.67
825	638486.16	4270392.29	UCART1	10.69
826	638526.16	4270392.29	UCART1	10.95
827	638566.16	4270392.29	UCART1	10.97
828	635966.16	4270432.29	UCART1	9.07

829	636006.16	4270432.29	UCART1	9.07
830	636046.16	4270432.29	UCART1	8.90
831	636126.16	4270432.29	UCART1	9.14
832	636166.16	4270432.29	UCART1	9.37
833	636206.16	4270432.29	UCART1	9.47
834	636286.16	4270432.29	UCART1	10.28
835	636326.16	4270432.29	UCART1	10.67
836	636366.16	4270432.29	UCART1	10.67
837	636406.16	4270432.29	UCART1	10.67
838	636446.16	4270432.29	UCART1	10.65
839	636526.16	4270432.29	UCART1	10.36
840	636606.16	4270432.29	UCART1	10.67
841	636646.16	4270432.29	UCART1	10.67
842	636686.16	4270432.29	UCART1	10.67
843	636726.16	4270432.29	UCART1	10.67
844	636766.16	4270432.29	UCART1	10.44
845	636806.16	4270432.29	UCART1	10.34
846	636846.16	4270432.29	UCART1	10.06
847	636886.16	4270432.29	UCART1	10.06
848	636926.16	4270432.29	UCART1	10.29
849	636966.16	4270432.29	UCART1	10.49
850	637006.16	4270432.29	UCART1	10.67
851	637046.16	4270432.29	UCART1	10.67
852	637086.16	4270432.29	UCART1	10.57
853	637126.16	4270432.29	UCART1	10.21
854	637166.16	4270432.29	UCART1	10.37
855	637206.16	4270432.29	UCART1	10.53
856	637606.16	4270432.29	UCART1	10.61
857	637646.16	4270432.29	UCART1	10.58
858	637686.16	4270432.29	UCART1	10.36
859	637726.16	4270432.29	UCART1	10.19
860	637766.16	4270432.29	UCART1	10.06
861	637886.16	4270432.29	UCART1	10.06
862	637926.16	4270432.29	UCART1	10.26
863	637966.16	4270432.29	UCART1	10.61
864	638006.16	4270432.29	UCART1	10.86
865	638046.16	4270432.29	UCART1	10.53
866	638086.16	4270432.29	UCART1	10.67

867	638166.16	4270432.29	UCART1	11.17
868	638206.16	4270432.29	UCART1	11.84
869	638246.16	4270432.29	UCART1	12.04
870	638286.16	4270432.29	UCART1	11.03
871	638406.16	4270432.29	UCART1	10.67
872	638446.16	4270432.29	UCART1	10.67
873	638486.16	4270432.29	UCART1	10.97
874	638526.16	4270432.29	UCART1	10.97
875	638566.16	4270432.29	UCART1	10.97
876	636006.16	4270472.29	UCART1	8.84
877	636046.16	4270472.29	UCART1	8.84
878	636086.16	4270472.29	UCART1	8.86
879	636126.16	4270472.29	UCART1	9.14
880	636166.16	4270472.29	UCART1	9.24
881	636206.16	4270472.29	UCART1	9.47
882	636526.16	4270472.29	UCART1	10.36
883	636606.16	4270472.29	UCART1	10.67
884	636646.16	4270472.29	UCART1	10.67
885	636686.16	4270472.29	UCART1	10.67
886	636726.16	4270472.29	UCART1	10.60
887	636766.16	4270472.29	UCART1	10.40
888	636806.16	4270472.29	UCART1	10.18
889	636846.16	4270472.29	UCART1	10.06
890	636886.16	4270472.29	UCART1	10.06
891	636926.16	4270472.29	UCART1	10.24
892	636966.16	4270472.29	UCART1	10.49
893	637006.16	4270472.29	UCART1	10.67
894	637046.16	4270472.29	UCART1	10.67
895	637086.16	4270472.29	UCART1	10.60
896	637126.16	4270472.29	UCART1	10.53
897	637166.16	4270472.29	UCART1	10.55
898	637206.16	4270472.29	UCART1	10.67
899	637646.16	4270472.29	UCART1	10.36
900	637686.16	4270472.29	UCART1	10.36
901	637726.16	4270472.29	UCART1	10.36
902	637766.16	4270472.29	UCART1	10.06
903	637886.16	4270472.29	UCART1	10.26
904	637926.16	4270472.29	UCART1	10.59

905	637966.16	4270472.29	UCART1	10.67
906	638006.16	4270472.29	UCART1	10.67
907	638046.16	4270472.29	UCART1	10.67
908	638086.16	4270472.29	UCART1	10.67
909	638126.16	4270472.29	UCART1	10.67
910	638166.16	4270472.29	UCART1	10.72
911	638326.16	4270472.29	UCART1	10.67
912	638366.16	4270472.29	UCART1	10.67
913	638406.16	4270472.29	UCART1	10.67
914	638446.16	4270472.29	UCART1	10.67
915	638486.16	4270472.29	UCART1	10.97
916	638526.16	4270472.29	UCART1	10.97
917	638566.16	4270472.29	UCART1	10.97
918	635966.16	4270512.29	UCART1	8.54
919	636006.16	4270512.29	UCART1	8.67
920	636046.16	4270512.29	UCART1	8.84
921	636086.16	4270512.29	UCART1	8.86
922	636126.16	4270512.29	UCART1	9.14
923	636166.16	4270512.29	UCART1	9.14
924	636206.16	4270512.29	UCART1	9.47
925	636286.16	4270512.29	UCART1	10.58
926	636326.16	4270512.29	UCART1	10.67
927	636366.16	4270512.29	UCART1	10.78
928	636406.16	4270512.29	UCART1	10.74
929	636526.16	4270512.29	UCART1	10.29
930	636566.16	4270512.29	UCART1	10.39
931	636606.16	4270512.29	UCART1	10.67
932	636646.16	4270512.29	UCART1	10.67
933	636686.16	4270512.29	UCART1	10.67
934	636726.16	4270512.29	UCART1	10.54
935	636766.16	4270512.29	UCART1	10.16
936	636806.16	4270512.29	UCART1	10.06
937	636846.16	4270512.29	UCART1	10.06
938	636886.16	4270512.29	UCART1	10.06
939	636926.16	4270512.29	UCART1	10.36
940	636966.16	4270512.29	UCART1	10.49
941	637006.16	4270512.29	UCART1	10.67
942	637046.16	4270512.29	UCART1	10.65

943	637086.16	4270512.29	UCART1	10.49
944	637126.16	4270512.29	UCART1	10.66
945	637166.16	4270512.29	UCART1	10.67
946	637206.16	4270512.29	UCART1	10.67
947	637646.16	4270512.29	UCART1	10.62
948	637686.16	4270512.29	UCART1	10.36
949	637726.16	4270512.29	UCART1	10.36
950	637766.16	4270512.29	UCART1	10.34
951	637806.16	4270512.29	UCART1	10.34
952	637926.16	4270512.29	UCART1	10.67
953	637966.16	4270512.29	UCART1	10.67
954	638006.16	4270512.29	UCART1	10.67
955	638046.16	4270512.29	UCART1	10.67
956	638086.16	4270512.29	UCART1	10.67
957	638126.16	4270512.29	UCART1	10.67
958	638286.16	4270512.29	UCART1	10.68
959	638326.16	4270512.29	UCART1	10.67
960	638366.16	4270512.29	UCART1	10.67
961	638406.16	4270512.29	UCART1	10.67
962	638446.16	4270512.29	UCART1	10.67
963	638486.16	4270512.29	UCART1	10.71
964	638526.16	4270512.29	UCART1	10.97
965	638566.16	4270512.29	UCART1	10.97
966	634406.16	4270552.29	UCART1	7.64
967	635966.16	4270552.29	UCART1	8.47
968	636046.16	4270552.29	UCART1	8.84
969	636086.16	4270552.29	UCART1	8.86
970	636126.16	4270552.29	UCART1	9.10
971	636166.16	4270552.29	UCART1	9.37
972	636206.16	4270552.29	UCART1	9.56
973	636486.16	4270552.29	UCART1	10.06
974	636526.16	4270552.29	UCART1	10.28
975	636606.16	4270552.29	UCART1	10.64
976	636646.16	4270552.29	UCART1	10.48
977	636686.16	4270552.29	UCART1	10.14
978	636726.16	4270552.29	UCART1	10.12
979	636766.16	4270552.29	UCART1	9.98
980	636806.16	4270552.29	UCART1	10.06

981	636846.16	4270552.29	UCART1	10.06
982	636886.16	4270552.29	UCART1	10.23
983	636926.16	4270552.29	UCART1	10.36
984	636966.16	4270552.29	UCART1	10.36
985	637006.16	4270552.29	UCART1	10.53
986	637046.16	4270552.29	UCART1	10.67
987	637086.16	4270552.29	UCART1	10.67
988	637126.16	4270552.29	UCART1	10.67
989	637166.16	4270552.29	UCART1	10.36
990	637206.16	4270552.29	UCART1	10.49
991	637646.16	4270552.29	UCART1	10.60
992	637686.16	4270552.29	UCART1	10.57
993	637726.16	4270552.29	UCART1	10.44
994	637766.16	4270552.29	UCART1	10.44
995	637806.16	4270552.29	UCART1	10.44
996	637846.16	4270552.29	UCART1	10.44
997	638046.16	4270552.29	UCART1	10.67
998	638086.16	4270552.29	UCART1	10.67
999	638326.16	4270552.29	UCART1	10.67
1,000	638366.16	4270552.29	UCART1	10.67
1,001	638406.16	4270552.29	UCART1	10.67
1,002	638446.16	4270552.29	UCART1	10.67
1,003	638486.16	4270552.29	UCART1	10.69
1,004	638526.16	4270552.29	UCART1	10.97
1,005	638566.16	4270552.29	UCART1	10.97
1,006	635966.16	4270592.29	UCART1	8.43
1,007	636006.16	4270592.29	UCART1	8.76
1,008	636046.16	4270592.29	UCART1	8.84
1,009	636126.16	4270592.29	UCART1	8.96
1,010	636166.16	4270592.29	UCART1	9.37
1,011	636206.16	4270592.29	UCART1	9.94
1,012	636286.16	4270592.29	UCART1	10.59
1,013	636326.16	4270592.29	UCART1	10.67
1,014	636366.16	4270592.29	UCART1	10.72
1,015	636406.16	4270592.29	UCART1	10.48
1,016	636486.16	4270592.29	UCART1	10.13
1,017	636526.16	4270592.29	UCART1	10.33
1,018	636606.16	4270592.29	UCART1	10.12

1,019	636646.16	4270592.29	UCART1	9.51
1,020	636686.16	4270592.29	UCART1	9.28
1,021	636726.16	4270592.29	UCART1	9.47
1,022	636766.16	4270592.29	UCART1	9.71
1,023	636806.16	4270592.29	UCART1	9.89
1,024	636846.16	4270592.29	UCART1	10.06
1,025	636886.16	4270592.29	UCART1	10.06
1,026	636926.16	4270592.29	UCART1	10.19
1,027	636966.16	4270592.29	UCART1	10.26
1,028	637006.16	4270592.29	UCART1	10.36
1,029	637046.16	4270592.29	UCART1	10.50
1,030	637086.16	4270592.29	UCART1	10.60
1,031	637126.16	4270592.29	UCART1	10.49
1,032	637166.16	4270592.29	UCART1	10.36
1,033	637206.16	4270592.29	UCART1	10.49
1,034	637246.16	4270592.29	UCART1	10.67
1,035	637646.16	4270592.29	UCART1	10.05
1,036	637686.16	4270592.29	UCART1	10.56
1,037	637726.16	4270592.29	UCART1	10.67
1,038	637766.16	4270592.29	UCART1	10.67
1,039	637806.16	4270592.29	UCART1	10.67
1,040	637846.16	4270592.29	UCART1	10.67
1,041	638326.16	4270592.29	UCART1	10.67
1,042	638366.16	4270592.29	UCART1	10.67
1,043	638406.16	4270592.29	UCART1	10.67
1,044	638446.16	4270592.29	UCART1	10.67
1,045	638486.16	4270592.29	UCART1	10.68
1,046	638526.16	4270592.29	UCART1	10.80
1,047	638566.16	4270592.29	UCART1	10.80
1,048	635966.16	4270632.29	UCART1	8.81
1,049	636006.16	4270632.29	UCART1	8.84
1,050	636046.16	4270632.29	UCART1	8.84
1,051	636486.16	4270632.29	UCART1	10.35
1,052	636526.16	4270632.29	UCART1	10.57
1,053	636566.16	4270632.29	UCART1	10.05
1,054	636606.16	4270632.29	UCART1	9.20
1,055	636646.16	4270632.29	UCART1	9.15
1,056	636686.16	4270632.29	UCART1	9.14

1,057	636726.16	4270632.29	UCART1	9.15
1,058	636766.16	4270632.29	UCART1	9.40
1,059	636806.16	4270632.29	UCART1	9.76
1,060	636846.16	4270632.29	UCART1	9.78
1,061	636886.16	4270632.29	UCART1	9.78
1,062	636926.16	4270632.29	UCART1	10.06
1,063	636966.16	4270632.29	UCART1	10.07
1,064	637006.16	4270632.29	UCART1	10.09
1,065	637046.16	4270632.29	UCART1	10.09
1,066	637086.16	4270632.29	UCART1	10.10
1,067	637126.16	4270632.29	UCART1	10.09
1,068	637166.16	4270632.29	UCART1	10.11
1,069	637206.16	4270632.29	UCART1	10.37
1,070	637246.16	4270632.29	UCART1	10.60
1,071	637686.16	4270632.29	UCART1	9.93
1,072	637726.16	4270632.29	UCART1	10.32
1,073	637766.16	4270632.29	UCART1	10.39
1,074	637806.16	4270632.29	UCART1	10.39
1,075	637846.16	4270632.29	UCART1	10.60
1,076	637886.16	4270632.29	UCART1	10.67
1,077	638366.16	4270632.29	UCART1	10.67
1,078	638406.16	4270632.29	UCART1	10.67
1,079	638446.16	4270632.29	UCART1	10.67
1,080	638486.16	4270632.29	UCART1	10.67
1,081	638526.16	4270632.29	UCART1	10.67
1,082	638566.16	4270632.29	UCART1	10.67
1,083	635966.16	4270672.29	UCART1	9.31
1,084	636006.16	4270672.29	UCART1	9.52
1,085	636046.16	4270672.29	UCART1	9.47
1,086	636126.16	4270672.29	UCART1	9.95
1,087	636166.16	4270672.29	UCART1	10.36
1,088	636206.16	4270672.29	UCART1	10.45
1,089	636246.16	4270672.29	UCART1	10.67
1,090	636486.16	4270672.29	UCART1	10.18
1,091	636526.16	4270672.29	UCART1	9.34
1,092	636566.16	4270672.29	UCART1	9.14
1,093	636646.16	4270672.29	UCART1	9.14
1,094	636686.16	4270672.29	UCART1	9.14

1,095	636726.16	4270672.29	UCART1	9.14
1,096	636766.16	4270672.29	UCART1	9.37
1,097	636806.16	4270672.29	UCART1	9.47
1,098	636846.16	4270672.29	UCART1	9.71
1,099	636886.16	4270672.29	UCART1	9.75
1,100	636926.16	4270672.29	UCART1	9.75
1,101	636966.16	4270672.29	UCART1	9.75
1,102	637006.16	4270672.29	UCART1	9.75
1,103	637046.16	4270672.29	UCART1	9.75
1,104	637086.16	4270672.29	UCART1	9.72
1,105	637126.16	4270672.29	UCART1	9.68
1,106	637166.16	4270672.29	UCART1	9.70
1,107	637206.16	4270672.29	UCART1	9.98
1,108	637246.16	4270672.29	UCART1	10.10
1,109	637686.16	4270672.29	UCART1	9.57
1,110	637726.16	4270672.29	UCART1	9.92
1,111	637766.16	4270672.29	UCART1	10.08
1,112	637806.16	4270672.29	UCART1	10.32
1,113	637846.16	4270672.29	UCART1	10.36
1,114	637886.16	4270672.29	UCART1	10.67
1,115	637926.16	4270672.29	UCART1	10.67
1,116	638446.16	4270672.29	UCART1	10.67
1,117	638486.16	4270672.29	UCART1	10.67
1,118	638526.16	4270672.29	UCART1	10.67
1,119	638566.16	4270672.29	UCART1	10.67
1,120	635966.16	4270712.29	UCART1	10.11
1,121	636006.16	4270712.29	UCART1	10.11
1,122	636046.16	4270712.29	UCART1	10.01
1,123	636126.16	4270712.29	UCART1	10.29
1,124	636166.16	4270712.29	UCART1	10.59
1,125	636206.16	4270712.29	UCART1	10.67
1,126	636246.16	4270712.29	UCART1	10.60
1,127	636486.16	4270712.29	UCART1	9.27
1,128	636526.16	4270712.29	UCART1	9.18
1,129	636566.16	4270712.29	UCART1	9.14
1,130	636606.16	4270712.29	UCART1	9.14
1,131	636686.16	4270712.29	UCART1	9.14
1,132	636726.16	4270712.29	UCART1	9.14

1,133	636766.16	4270712.29	UCART1	9.37
1,134	636806.16	4270712.29	UCART1	9.45
1,135	636846.16	4270712.29	UCART1	9.50
1,136	636886.16	4270712.29	UCART1	9.58
1,137	636926.16	4270712.29	UCART1	9.58
1,138	636966.16	4270712.29	UCART1	9.58
1,139	637006.16	4270712.29	UCART1	9.58
1,140	637046.16	4270712.29	UCART1	9.58
1,141	637086.16	4270712.29	UCART1	9.52
1,142	637126.16	4270712.29	UCART1	9.45
1,143	637166.16	4270712.29	UCART1	9.45
1,144	637206.16	4270712.29	UCART1	9.40
1,145	637246.16	4270712.29	UCART1	9.18
1,146	637686.16	4270712.29	UCART1	9.57
1,147	637726.16	4270712.29	UCART1	9.75
1,148	637766.16	4270712.29	UCART1	10.07
1,149	637806.16	4270712.29	UCART1	10.29
1,150	637846.16	4270712.29	UCART1	10.36
1,151	638446.16	4270712.29	UCART1	10.67
1,152	638486.16	4270712.29	UCART1	10.67
1,153	638526.16	4270712.29	UCART1	10.67
1,154	638566.16	4270712.29	UCART1	10.67
1,155	635366.16	4270752.29	UCART1	7.65
1,156	635406.16	4270752.29	UCART1	7.65
1,157	635446.16	4270752.29	UCART1	7.65
1,158	635486.16	4270752.29	UCART1	7.70
1,159	635526.16	4270752.29	UCART1	7.75
1,160	635566.16	4270752.29	UCART1	7.53
1,161	635606.16	4270752.29	UCART1	7.41
1,162	635646.16	4270752.29	UCART1	7.50
1,163	635686.16	4270752.29	UCART1	7.32
1,164	635726.16	4270752.29	UCART1	7.93
1,165	635766.16	4270752.29	UCART1	8.83
1,166	635806.16	4270752.29	UCART1	8.99
1,167	635846.16	4270752.29	UCART1	9.37
1,168	635926.16	4270752.29	UCART1	10.54
1,169	635966.16	4270752.29	UCART1	10.66
1,170	636006.16	4270752.29	UCART1	10.81

1,171	636046.16	4270752.29	UCART1	10.64
1,172	636126.16	4270752.29	UCART1	10.09
1,173	636166.16	4270752.29	UCART1	10.31
1,174	636206.16	4270752.29	UCART1	10.39
1,175	636246.16	4270752.29	UCART1	10.27
1,176	636446.16	4270752.29	UCART1	9.14
1,177	636486.16	4270752.29	UCART1	9.14
1,178	636526.16	4270752.29	UCART1	9.14
1,179	636566.16	4270752.29	UCART1	9.14
1,180	636606.16	4270752.29	UCART1	9.14
1,181	636646.16	4270752.29	UCART1	9.14
1,182	636686.16	4270752.29	UCART1	9.14
1,183	636726.16	4270752.29	UCART1	9.14
1,184	636766.16	4270752.29	UCART1	9.37
1,185	636806.16	4270752.29	UCART1	9.45
1,186	636846.16	4270752.29	UCART1	9.45
1,187	636886.16	4270752.29	UCART1	9.45
1,188	636926.16	4270752.29	UCART1	9.45
1,189	636966.16	4270752.29	UCART1	9.45
1,190	637006.16	4270752.29	UCART1	9.45
1,191	637046.16	4270752.29	UCART1	9.45
1,192	637086.16	4270752.29	UCART1	9.45
1,193	637126.16	4270752.29	UCART1	9.45
1,194	637166.16	4270752.29	UCART1	9.15
1,195	637206.16	4270752.29	UCART1	8.87
1,196	637246.16	4270752.29	UCART1	8.64
1,197	635246.16	4270792.29	UCART1	7.55
1,198	635286.16	4270792.29	UCART1	7.62
1,199	635326.16	4270792.29	UCART1	7.62
1,200	635366.16	4270792.29	UCART1	7.55
1,201	635406.16	4270792.29	UCART1	7.45
1,202	635446.16	4270792.29	UCART1	7.54
1,203	635486.16	4270792.29	UCART1	7.62
1,204	635526.16	4270792.29	UCART1	7.62
1,205	635566.16	4270792.29	UCART1	7.45
1,206	635606.16	4270792.29	UCART1	7.70
1,207	635646.16	4270792.29	UCART1	7.92
1,208	635686.16	4270792.29	UCART1	8.54

1,209	635726.16	4270792.29	UCART1	9.31
1,210	635806.16	4270792.29	UCART1	10.13
1,211	635846.16	4270792.29	UCART1	10.52
1,212	635886.16	4270792.29	UCART1	10.67
1,213	635926.16	4270792.29	UCART1	10.61
1,214	635966.16	4270792.29	UCART1	10.52
1,215	636006.16	4270792.29	UCART1	10.49
1,216	636126.16	4270792.29	UCART1	9.63
1,217	636166.16	4270792.29	UCART1	9.85
1,218	636206.16	4270792.29	UCART1	9.61
1,219	636446.16	4270792.29	UCART1	9.14
1,220	636486.16	4270792.29	UCART1	9.14
1,221	636526.16	4270792.29	UCART1	9.14
1,222	636566.16	4270792.29	UCART1	9.14
1,223	636606.16	4270792.29	UCART1	9.14
1,224	636646.16	4270792.29	UCART1	9.14
1,225	636686.16	4270792.29	UCART1	9.14
1,226	636726.16	4270792.29	UCART1	9.14
1,227	636766.16	4270792.29	UCART1	9.37
1,228	636806.16	4270792.29	UCART1	9.45
1,229	636846.16	4270792.29	UCART1	9.45
1,230	636886.16	4270792.29	UCART1	9.45
1,231	636926.16	4270792.29	UCART1	9.45
1,232	636966.16	4270792.29	UCART1	9.45
1,233	637006.16	4270792.29	UCART1	9.45
1,234	637046.16	4270792.29	UCART1	9.45
1,235	637086.16	4270792.29	UCART1	9.45
1,236	637126.16	4270792.29	UCART1	9.22
1,237	637166.16	4270792.29	UCART1	9.05
1,238	637206.16	4270792.29	UCART1	8.72
1,239	637246.16	4270792.29	UCART1	8.31
1,240	638086.16	4270792.29	UCART1	10.67
1,241	638126.16	4270792.29	UCART1	10.67
1,242	638166.16	4270792.29	UCART1	10.67
1,243	638206.16	4270792.29	UCART1	10.67
1,244	638246.16	4270792.29	UCART1	10.67
1,245	638286.16	4270792.29	UCART1	10.67
1,246	638326.16	4270792.29	UCART1	10.67

1,247	638366.16	4270792.29	UCART1	10.67
1,248	638406.16	4270792.29	UCART1	10.67
1,249	638446.16	4270792.29	UCART1	10.67
1,250	638486.16	4270792.29	UCART1	10.67
1,251	638526.16	4270792.29	UCART1	10.67
1,252	638566.16	4270792.29	UCART1	10.67
1,253	635126.16	4270832.29	UCART1	7.62
1,254	635166.16	4270832.29	UCART1	7.62
1,255	635206.16	4270832.29	UCART1	7.49
1,256	635246.16	4270832.29	UCART1	7.32
1,257	635286.16	4270832.29	UCART1	7.44
1,258	635326.16	4270832.29	UCART1	7.44
1,259	635366.16	4270832.29	UCART1	7.32
1,260	635406.16	4270832.29	UCART1	7.39
1,261	635446.16	4270832.29	UCART1	7.59
1,262	635486.16	4270832.29	UCART1	7.63
1,263	635526.16	4270832.29	UCART1	7.80
1,264	635566.16	4270832.29	UCART1	7.93
1,265	635606.16	4270832.29	UCART1	8.30
1,266	635686.16	4270832.29	UCART1	9.24
1,267	635726.16	4270832.29	UCART1	9.77
1,268	635766.16	4270832.29	UCART1	10.11
1,269	635806.16	4270832.29	UCART1	10.59
1,270	635846.16	4270832.29	UCART1	10.77
1,271	635886.16	4270832.29	UCART1	10.42
1,272	635966.16	4270832.29	UCART1	9.87
1,273	636006.16	4270832.29	UCART1	9.58
1,274	636046.16	4270832.29	UCART1	9.31
1,275	636086.16	4270832.29	UCART1	8.97
1,276	636126.16	4270832.29	UCART1	9.09
1,277	636166.16	4270832.29	UCART1	9.40
1,278	636206.16	4270832.29	UCART1	9.15
1,279	636446.16	4270832.29	UCART1	9.14
1,280	636486.16	4270832.29	UCART1	9.14
1,281	636526.16	4270832.29	UCART1	9.14
1,282	636566.16	4270832.29	UCART1	9.14
1,283	636606.16	4270832.29	UCART1	9.14
1,284	636646.16	4270832.29	UCART1	9.14

1,285	636686.16	4270832.29	UCART1	9.14
1,286	636766.16	4270832.29	UCART1	9.37
1,287	636806.16	4270832.29	UCART1	9.45
1,288	636846.16	4270832.29	UCART1	9.45
1,289	636886.16	4270832.29	UCART1	9.45
1,290	636926.16	4270832.29	UCART1	9.45
1,291	636966.16	4270832.29	UCART1	9.45
1,292	637006.16	4270832.29	UCART1	9.45
1,293	637046.16	4270832.29	UCART1	9.45
1,294	637086.16	4270832.29	UCART1	9.38
1,295	637126.16	4270832.29	UCART1	9.18
1,296	637166.16	4270832.29	UCART1	8.84
1,297	637206.16	4270832.29	UCART1	8.72
1,298	637246.16	4270832.29	UCART1	8.31
1,299	637286.16	4270832.29	UCART1	8.09
1,300	638086.16	4270832.29	UCART1	10.67
1,301	638126.16	4270832.29	UCART1	10.67
1,302	638166.16	4270832.29	UCART1	10.67
1,303	638206.16	4270832.29	UCART1	10.67
1,304	638246.16	4270832.29	UCART1	10.67
1,305	638286.16	4270832.29	UCART1	10.67
1,306	638326.16	4270832.29	UCART1	10.67
1,307	638366.16	4270832.29	UCART1	10.67
1,308	638406.16	4270832.29	UCART1	10.67
1,309	638446.16	4270832.29	UCART1	10.67
1,310	638486.16	4270832.29	UCART1	10.67
1,311	638526.16	4270832.29	UCART1	10.67
1,312	638566.16	4270832.29	UCART1	10.67
1,313	635126.16	4270872.29	UCART1	7.34
1,314	635166.16	4270872.29	UCART1	7.34
1,315	635206.16	4270872.29	UCART1	7.32
1,316	635246.16	4270872.29	UCART1	7.32
1,317	635286.16	4270872.29	UCART1	7.32
1,318	635326.16	4270872.29	UCART1	7.52
1,319	635366.16	4270872.29	UCART1	7.59
1,320	635406.16	4270872.29	UCART1	7.60
1,321	635446.16	4270872.29	UCART1	7.62
1,322	635486.16	4270872.29	UCART1	7.90

1,323	635526.16	4270872.29	UCART1	8.04
1,324	635566.16	4270872.29	UCART1	8.43
1,325	635646.16	4270872.29	UCART1	9.13
1,326	635686.16	4270872.29	UCART1	9.37
1,327	635726.16	4270872.29	UCART1	9.50
1,328	635766.16	4270872.29	UCART1	9.90
1,329	635846.16	4270872.29	UCART1	10.11
1,330	635886.16	4270872.29	UCART1	9.96
1,331	635926.16	4270872.29	UCART1	9.57
1,332	635966.16	4270872.29	UCART1	9.20
1,333	636006.16	4270872.29	UCART1	9.05
1,334	636046.16	4270872.29	UCART1	8.87
1,335	636086.16	4270872.29	UCART1	8.86
1,336	636126.16	4270872.29	UCART1	9.02
1,337	636166.16	4270872.29	UCART1	8.68
1,338	636206.16	4270872.29	UCART1	8.05
1,339	636246.16	4270872.29	UCART1	8.42
1,340	636286.16	4270872.29	UCART1	8.55
1,341	636406.16	4270872.29	UCART1	9.28
1,342	636446.16	4270872.29	UCART1	9.40
1,343	636486.16	4270872.29	UCART1	9.14
1,344	636526.16	4270872.29	UCART1	9.14
1,345	636566.16	4270872.29	UCART1	9.14
1,346	636606.16	4270872.29	UCART1	9.14
1,347	636646.16	4270872.29	UCART1	9.14
1,348	636686.16	4270872.29	UCART1	9.14
1,349	636726.16	4270872.29	UCART1	9.14
1,350	636806.16	4270872.29	UCART1	9.45
1,351	636846.16	4270872.29	UCART1	9.45
1,352	636886.16	4270872.29	UCART1	9.45
1,353	636926.16	4270872.29	UCART1	9.45
1,354	636966.16	4270872.29	UCART1	9.45
1,355	637006.16	4270872.29	UCART1	9.45
1,356	637046.16	4270872.29	UCART1	9.43
1,357	637086.16	4270872.29	UCART1	9.16
1,358	637126.16	4270872.29	UCART1	9.14
1,359	637166.16	4270872.29	UCART1	8.84
1,360	637206.16	4270872.29	UCART1	8.72

1,361	637246.16	4270872.29	UCART1	8.51
1,362	637286.16	4270872.29	UCART1	8.21
1,363	638086.16	4270872.29	UCART1	10.67
1,364	638126.16	4270872.29	UCART1	10.67
1,365	638166.16	4270872.29	UCART1	10.67
1,366	638206.16	4270872.29	UCART1	10.67
1,367	638246.16	4270872.29	UCART1	10.67
1,368	638286.16	4270872.29	UCART1	10.67
1,369	638326.16	4270872.29	UCART1	10.67
1,370	638366.16	4270872.29	UCART1	10.67
1,371	638406.16	4270872.29	UCART1	10.67
1,372	638446.16	4270872.29	UCART1	10.67
1,373	638486.16	4270872.29	UCART1	10.67
1,374	638526.16	4270872.29	UCART1	10.67
1,375	638566.16	4270872.29	UCART1	10.67
1,376	635166.16	4270912.29	UCART1	7.32
1,377	635206.16	4270912.29	UCART1	7.32
1,378	635246.16	4270912.29	UCART1	7.32
1,379	635286.16	4270912.29	UCART1	7.44
1,380	635326.16	4270912.29	UCART1	7.62
1,381	635366.16	4270912.29	UCART1	7.62
1,382	635406.16	4270912.29	UCART1	7.71
1,383	635446.16	4270912.29	UCART1	7.91
1,384	635486.16	4270912.29	UCART1	7.92
1,385	635526.16	4270912.29	UCART1	8.05
1,386	635766.16	4270912.29	UCART1	9.33
1,387	635846.16	4270912.29	UCART1	9.37
1,388	635886.16	4270912.29	UCART1	9.37
1,389	635926.16	4270912.29	UCART1	9.20
1,390	635966.16	4270912.29	UCART1	8.84
1,391	636006.16	4270912.29	UCART1	8.84
1,392	636046.16	4270912.29	UCART1	8.78
1,393	636086.16	4270912.29	UCART1	8.53
1,394	636166.16	4270912.29	UCART1	7.70
1,395	636206.16	4270912.29	UCART1	7.64
1,396	636246.16	4270912.29	UCART1	7.94
1,397	636286.16	4270912.29	UCART1	8.14
1,398	636406.16	4270912.29	UCART1	9.28

1,399	636446.16	4270912.29	UCART1	9.36
1,400	636486.16	4270912.29	UCART1	9.14
1,401	636526.16	4270912.29	UCART1	9.14
1,402	636566.16	4270912.29	UCART1	9.14
1,403	636606.16	4270912.29	UCART1	9.14
1,404	636646.16	4270912.29	UCART1	9.14
1,405	636686.16	4270912.29	UCART1	9.14
1,406	636726.16	4270912.29	UCART1	9.14
1,407	636766.16	4270912.29	UCART1	9.37
1,408	636846.16	4270912.29	UCART1	9.45
1,409	636886.16	4270912.29	UCART1	9.45
1,410	636926.16	4270912.29	UCART1	9.45
1,411	636966.16	4270912.29	UCART1	9.45
1,412	637006.16	4270912.29	UCART1	9.39
1,413	637046.16	4270912.29	UCART1	9.14
1,414	637086.16	4270912.29	UCART1	9.14
1,415	637126.16	4270912.29	UCART1	8.92
1,416	637166.16	4270912.29	UCART1	8.84
1,417	637206.16	4270912.29	UCART1	8.72
1,418	637246.16	4270912.29	UCART1	8.53
1,419	637286.16	4270912.29	UCART1	8.28
1,420	638086.16	4270912.29	UCART1	10.67
1,421	638126.16	4270912.29	UCART1	10.67
1,422	638166.16	4270912.29	UCART1	10.67
1,423	638206.16	4270912.29	UCART1	10.67
1,424	638246.16	4270912.29	UCART1	10.67
1,425	638286.16	4270912.29	UCART1	10.67
1,426	638326.16	4270912.29	UCART1	10.67
1,427	638366.16	4270912.29	UCART1	10.67
1,428	638406.16	4270912.29	UCART1	10.67
1,429	638446.16	4270912.29	UCART1	10.67
1,430	638486.16	4270912.29	UCART1	10.59
1,431	638526.16	4270912.29	UCART1	10.50
1,432	638566.16	4270912.29	UCART1	10.31
1,433	635166.16	4270952.29	UCART1	7.14
1,434	635206.16	4270952.29	UCART1	7.27
1,435	635246.16	4270952.29	UCART1	7.32
1,436	635286.16	4270952.29	UCART1	7.37

1,437	635326.16	4270952.29	UCART1	7.57
1,438	635366.16	4270952.29	UCART1	7.62
1,439	635406.16	4270952.29	UCART1	7.62
1,440	635446.16	4270952.29	UCART1	7.72
1,441	635486.16	4270952.29	UCART1	7.92
1,442	635686.16	4270952.29	UCART1	8.76
1,443	635726.16	4270952.29	UCART1	8.78
1,444	635766.16	4270952.29	UCART1	8.72
1,445	635846.16	4270952.29	UCART1	8.80
1,446	635886.16	4270952.29	UCART1	8.97
1,447	635926.16	4270952.29	UCART1	8.97
1,448	635966.16	4270952.29	UCART1	8.83
1,449	636006.16	4270952.29	UCART1	8.66
1,450	636046.16	4270952.29	UCART1	8.57
1,451	636086.16	4270952.29	UCART1	8.51
1,452	636126.16	4270952.29	UCART1	8.18
1,453	636166.16	4270952.29	UCART1	7.88
1,454	636206.16	4270952.29	UCART1	7.80
1,455	636246.16	4270952.29	UCART1	7.87
1,456	636366.16	4270952.29	UCART1	9.30
1,457	636406.16	4270952.29	UCART1	9.45
1,458	636446.16	4270952.29	UCART1	9.14
1,459	636486.16	4270952.29	UCART1	9.14
1,460	636526.16	4270952.29	UCART1	9.14
1,461	636566.16	4270952.29	UCART1	9.14
1,462	636606.16	4270952.29	UCART1	9.14
1,463	636646.16	4270952.29	UCART1	9.14
1,464	636686.16	4270952.29	UCART1	9.14
1,465	636726.16	4270952.29	UCART1	9.14
1,466	636766.16	4270952.29	UCART1	9.37
1,467	636806.16	4270952.29	UCART1	9.45
1,468	636886.16	4270952.29	UCART1	9.45
1,469	636926.16	4270952.29	UCART1	9.45
1,470	636966.16	4270952.29	UCART1	9.45
1,471	637006.16	4270952.29	UCART1	9.22
1,472	637046.16	4270952.29	UCART1	9.14
1,473	637086.16	4270952.29	UCART1	9.14
1,474	637126.16	4270952.29	UCART1	9.05

1,475	637166.16	4270952.29	UCART1	8.84
1,476	637206.16	4270952.29	UCART1	8.79
1,477	637246.16	4270952.29	UCART1	8.58
1,478	637286.16	4270952.29	UCART1	8.53
1,479	638086.16	4270952.29	UCART1	10.67
1,480	638126.16	4270952.29	UCART1	10.67
1,481	638166.16	4270952.29	UCART1	10.67
1,482	638206.16	4270952.29	UCART1	10.67
1,483	638246.16	4270952.29	UCART1	10.67
1,484	638286.16	4270952.29	UCART1	10.67
1,485	638326.16	4270952.29	UCART1	10.67
1,486	638366.16	4270952.29	UCART1	10.67
1,487	638406.16	4270952.29	UCART1	10.67
1,488	638446.16	4270952.29	UCART1	10.67
1,489	638486.16	4270952.29	UCART1	10.36
1,490	638526.16	4270952.29	UCART1	10.29
1,491	638566.16	4270952.29	UCART1	10.09
1,492	634846.16	4270992.29	UCART1	7.01
1,493	634886.16	4270992.29	UCART1	7.01
1,494	634926.16	4270992.29	UCART1	7.15
1,495	634966.16	4270992.29	UCART1	7.32
1,496	635166.16	4270992.29	UCART1	7.01
1,497	635206.16	4270992.29	UCART1	7.03
1,498	635246.16	4270992.29	UCART1	7.32
1,499	635286.16	4270992.29	UCART1	7.32
1,500	635326.16	4270992.29	UCART1	7.54
1,501	635366.16	4270992.29	UCART1	7.62
1,502	635406.16	4270992.29	UCART1	7.62
1,503	635446.16	4270992.29	UCART1	7.62
1,504	635486.16	4270992.29	UCART1	7.67
1,505	635526.16	4270992.29	UCART1	7.92
1,506	635646.16	4270992.29	UCART1	8.13
1,507	635686.16	4270992.29	UCART1	7.98
1,508	635726.16	4270992.29	UCART1	7.98
1,509	635766.16	4270992.29	UCART1	7.98
1,510	635806.16	4270992.29	UCART1	7.98
1,511	635846.16	4270992.29	UCART1	8.00
1,512	635886.16	4270992.29	UCART1	8.40

1,513	635926.16	4270992.29	UCART1	8.56
1,514	635966.16	4270992.29	UCART1	8.56
1,515	636006.16	4270992.29	UCART1	8.53
1,516	636046.16	4270992.29	UCART1	8.53
1,517	636086.16	4270992.29	UCART1	8.53
1,518	636126.16	4270992.29	UCART1	8.39
1,519	636206.16	4270992.29	UCART1	8.22
1,520	636246.16	4270992.29	UCART1	8.60
1,521	636366.16	4270992.29	UCART1	9.28
1,522	636406.16	4270992.29	UCART1	9.45
1,523	636446.16	4270992.29	UCART1	9.14
1,524	636486.16	4270992.29	UCART1	9.14
1,525	636526.16	4270992.29	UCART1	9.14
1,526	636566.16	4270992.29	UCART1	9.14
1,527	636606.16	4270992.29	UCART1	9.14
1,528	636646.16	4270992.29	UCART1	9.14
1,529	636686.16	4270992.29	UCART1	9.14
1,530	636726.16	4270992.29	UCART1	9.26
1,531	636766.16	4270992.29	UCART1	9.44
1,532	636806.16	4270992.29	UCART1	9.45
1,533	636846.16	4270992.29	UCART1	9.45
1,534	636886.16	4270992.29	UCART1	9.45
1,535	636926.16	4270992.29	UCART1	9.45
1,536	636966.16	4270992.29	UCART1	9.45
1,537	637006.16	4270992.29	UCART1	9.43
1,538	637046.16	4270992.29	UCART1	9.14
1,539	637086.16	4270992.29	UCART1	9.14
1,540	637126.16	4270992.29	UCART1	9.14
1,541	637166.16	4270992.29	UCART1	9.10
1,542	637206.16	4270992.29	UCART1	8.84
1,543	637246.16	4270992.29	UCART1	8.82
1,544	637286.16	4270992.29	UCART1	8.79
1,545	638086.16	4270992.29	UCART1	10.67
1,546	638126.16	4270992.29	UCART1	10.67
1,547	638166.16	4270992.29	UCART1	10.67
1,548	638206.16	4270992.29	UCART1	10.67
1,549	638246.16	4270992.29	UCART1	10.67
1,550	638286.16	4270992.29	UCART1	10.67

1,551	638326.16	4270992.29	UCART1	10.67
1,552	638366.16	4270992.29	UCART1	10.67
1,553	638406.16	4270992.29	UCART1	10.67
1,554	638446.16	4270992.29	UCART1	10.67
1,555	638486.16	4270992.29	UCART1	10.06
1,556	638526.16	4270992.29	UCART1	9.80
1,557	638566.16	4270992.29	UCART1	9.78
1,558	634806.16	4271032.29	UCART1	6.87
1,559	634846.16	4271032.29	UCART1	7.01
1,560	634886.16	4271032.29	UCART1	7.01
1,561	634926.16	4271032.29	UCART1	7.01
1,562	634966.16	4271032.29	UCART1	7.01
1,563	635006.16	4271032.29	UCART1	7.01
1,564	635046.16	4271032.29	UCART1	7.01
1,565	635086.16	4271032.29	UCART1	7.01
1,566	635166.16	4271032.29	UCART1	7.01
1,567	635206.16	4271032.29	UCART1	7.01
1,568	635246.16	4271032.29	UCART1	7.32
1,569	635286.16	4271032.29	UCART1	7.32
1,570	635326.16	4271032.29	UCART1	7.32
1,571	635366.16	4271032.29	UCART1	7.62
1,572	635406.16	4271032.29	UCART1	7.62
1,573	635446.16	4271032.29	UCART1	7.62
1,574	635486.16	4271032.29	UCART1	7.62
1,575	635526.16	4271032.29	UCART1	7.62
1,576	635566.16	4271032.29	UCART1	7.62
1,577	635606.16	4271032.29	UCART1	7.62
1,578	635646.16	4271032.29	UCART1	7.62
1,579	635686.16	4271032.29	UCART1	7.62
1,580	635726.16	4271032.29	UCART1	7.62
1,581	635766.16	4271032.29	UCART1	7.71
1,582	635806.16	4271032.29	UCART1	7.85
1,583	635846.16	4271032.29	UCART1	7.62
1,584	635886.16	4271032.29	UCART1	7.74
1,585	635926.16	4271032.29	UCART1	8.09
1,586	635966.16	4271032.29	UCART1	8.25
1,587	636006.16	4271032.29	UCART1	8.46
1,588	636046.16	4271032.29	UCART1	8.51

1,589	636126.16	4271032.29	UCART1	8.56
1,590	636166.16	4271032.29	UCART1	8.61
1,591	636206.16	4271032.29	UCART1	8.63
1,592	636326.16	4271032.29	UCART1	9.45
1,593	636366.16	4271032.29	UCART1	9.45
1,594	636406.16	4271032.29	UCART1	9.45
1,595	636446.16	4271032.29	UCART1	9.14
1,596	636486.16	4271032.29	UCART1	9.14
1,597	636526.16	4271032.29	UCART1	9.14
1,598	636566.16	4271032.29	UCART1	9.14
1,599	636606.16	4271032.29	UCART1	9.14
1,600	636646.16	4271032.29	UCART1	9.14
1,601	636686.16	4271032.29	UCART1	9.38
1,602	636726.16	4271032.29	UCART1	9.45
1,603	636766.16	4271032.29	UCART1	9.45
1,604	636806.16	4271032.29	UCART1	9.45
1,605	636846.16	4271032.29	UCART1	9.45
1,606	636886.16	4271032.29	UCART1	9.45
1,607	636926.16	4271032.29	UCART1	9.45
1,608	636966.16	4271032.29	UCART1	9.45
1,609	637006.16	4271032.29	UCART1	9.45
1,610	637046.16	4271032.29	UCART1	9.43
1,611	637086.16	4271032.29	UCART1	9.19
1,612	637126.16	4271032.29	UCART1	9.14
1,613	637166.16	4271032.29	UCART1	9.14
1,614	637206.16	4271032.29	UCART1	9.05
1,615	637246.16	4271032.29	UCART1	8.91
1,616	637286.16	4271032.29	UCART1	8.84
1,617	637846.16	4271032.29	UCART1	9.60
1,618	637886.16	4271032.29	UCART1	9.77
1,619	637926.16	4271032.29	UCART1	10.01
1,620	637966.16	4271032.29	UCART1	10.28
1,621	638086.16	4271032.29	UCART1	10.72
1,622	638126.16	4271032.29	UCART1	10.97
1,623	638166.16	4271032.29	UCART1	10.97
1,624	638206.16	4271032.29	UCART1	10.92
1,625	638246.16	4271032.29	UCART1	10.67
1,626	638286.16	4271032.29	UCART1	10.64

1,627	638326.16	4271032.29	UCART1	10.59
1,628	638366.16	4271032.29	UCART1	10.57
1,629	638406.16	4271032.29	UCART1	9.97
1,630	638446.16	4271032.29	UCART1	9.26
1,631	638486.16	4271032.29	UCART1	9.22
1,632	638526.16	4271032.29	UCART1	9.19
1,633	638566.16	4271032.29	UCART1	9.31
1,634	634766.16	4271072.29	UCART1	6.89
1,635	634806.16	4271072.29	UCART1	7.01
1,636	634846.16	4271072.29	UCART1	7.01
1,637	634886.16	4271072.29	UCART1	7.01
1,638	634926.16	4271072.29	UCART1	7.01
1,639	634966.16	4271072.29	UCART1	7.01
1,640	635006.16	4271072.29	UCART1	7.01
1,641	635046.16	4271072.29	UCART1	7.01
1,642	635086.16	4271072.29	UCART1	7.01
1,643	635126.16	4271072.29	UCART1	7.01
1,644	635166.16	4271072.29	UCART1	7.01
1,645	635206.16	4271072.29	UCART1	7.01
1,646	635246.16	4271072.29	UCART1	7.32
1,647	635286.16	4271072.29	UCART1	7.32
1,648	635326.16	4271072.29	UCART1	7.32
1,649	635366.16	4271072.29	UCART1	7.62
1,650	635406.16	4271072.29	UCART1	7.62
1,651	635446.16	4271072.29	UCART1	7.62
1,652	635486.16	4271072.29	UCART1	7.62
1,653	635526.16	4271072.29	UCART1	7.62
1,654	635566.16	4271072.29	UCART1	7.62
1,655	635606.16	4271072.29	UCART1	7.62
1,656	635646.16	4271072.29	UCART1	7.62
1,657	635686.16	4271072.29	UCART1	7.62
1,658	635726.16	4271072.29	UCART1	7.62
1,659	635806.16	4271072.29	UCART1	7.62
1,660	635886.16	4271072.29	UCART1	7.74
1,661	635926.16	4271072.29	UCART1	7.92
1,662	635966.16	4271072.29	UCART1	8.23
1,663	636046.16	4271072.29	UCART1	8.46
1,664	636086.16	4271072.29	UCART1	8.55

1,665	636126.16	4271072.29	UCART1	8.76
1,666	636166.16	4271072.29	UCART1	8.84
1,667	636286.16	4271072.29	UCART1	9.14
1,668	636326.16	4271072.29	UCART1	9.45
1,669	636366.16	4271072.29	UCART1	9.45
1,670	636406.16	4271072.29	UCART1	9.45
1,671	636446.16	4271072.29	UCART1	9.14
1,672	636486.16	4271072.29	UCART1	9.14
1,673	636526.16	4271072.29	UCART1	9.14
1,674	636566.16	4271072.29	UCART1	9.14
1,675	636606.16	4271072.29	UCART1	9.14
1,676	636646.16	4271072.29	UCART1	9.14
1,677	636686.16	4271072.29	UCART1	9.15
1,678	636726.16	4271072.29	UCART1	9.34
1,679	636766.16	4271072.29	UCART1	9.45
1,680	636806.16	4271072.29	UCART1	9.45
1,681	636846.16	4271072.29	UCART1	9.45
1,682	636886.16	4271072.29	UCART1	9.32
1,683	636966.16	4271072.29	UCART1	9.34
1,684	637006.16	4271072.29	UCART1	9.45
1,685	637046.16	4271072.29	UCART1	9.45
1,686	637086.16	4271072.29	UCART1	9.40
1,687	637126.16	4271072.29	UCART1	9.19
1,688	637166.16	4271072.29	UCART1	9.14
1,689	637206.16	4271072.29	UCART1	9.14
1,690	637246.16	4271072.29	UCART1	9.14
1,691	637286.16	4271072.29	UCART1	9.03
1,692	637846.16	4271072.29	UCART1	9.37
1,693	637886.16	4271072.29	UCART1	9.59
1,694	637926.16	4271072.29	UCART1	9.88
1,695	637966.16	4271072.29	UCART1	10.28
1,696	638086.16	4271072.29	UCART1	10.76
1,697	638126.16	4271072.29	UCART1	10.80
1,698	638166.16	4271072.29	UCART1	10.80
1,699	638206.16	4271072.29	UCART1	10.70
1,700	638246.16	4271072.29	UCART1	10.66
1,701	638286.16	4271072.29	UCART1	10.44
1,702	638326.16	4271072.29	UCART1	10.23

1,703	638366.16	4271072.29	UCART1	10.14
1,704	638406.16	4271072.29	UCART1	9.40
1,705	638446.16	4271072.29	UCART1	9.27
1,706	638486.16	4271072.29	UCART1	9.46
1,707	638526.16	4271072.29	UCART1	9.50
1,708	638566.16	4271072.29	UCART1	9.32
1,709	634726.16	4271112.29	UCART1	6.91
1,710	634766.16	4271112.29	UCART1	7.01
1,711	634806.16	4271112.29	UCART1	7.01
1,712	634846.16	4271112.29	UCART1	7.01
1,713	634886.16	4271112.29	UCART1	7.01
1,714	634926.16	4271112.29	UCART1	7.01
1,715	634966.16	4271112.29	UCART1	7.01
1,716	635006.16	4271112.29	UCART1	7.01
1,717	635046.16	4271112.29	UCART1	7.01
1,718	635086.16	4271112.29	UCART1	7.01
1,719	635126.16	4271112.29	UCART1	7.01
1,720	635166.16	4271112.29	UCART1	7.01
1,721	635246.16	4271112.29	UCART1	7.32
1,722	635286.16	4271112.29	UCART1	7.32
1,723	635326.16	4271112.29	UCART1	7.52
1,724	635366.16	4271112.29	UCART1	7.62
1,725	635406.16	4271112.29	UCART1	7.62
1,726	635446.16	4271112.29	UCART1	7.62
1,727	635486.16	4271112.29	UCART1	7.62
1,728	635526.16	4271112.29	UCART1	7.62
1,729	635566.16	4271112.29	UCART1	7.62
1,730	635606.16	4271112.29	UCART1	7.62
1,731	635646.16	4271112.29	UCART1	7.62
1,732	635686.16	4271112.29	UCART1	7.62
1,733	635726.16	4271112.29	UCART1	7.62
1,734	635766.16	4271112.29	UCART1	7.62
1,735	635806.16	4271112.29	UCART1	7.62
1,736	635846.16	4271112.29	UCART1	7.64
1,737	635886.16	4271112.29	UCART1	7.91
1,738	635926.16	4271112.29	UCART1	7.92
1,739	636006.16	4271112.29	UCART1	8.06
1,740	636046.16	4271112.29	UCART1	8.46

1,741	636086.16	4271112.29	UCART1	8.81
1,742	636126.16	4271112.29	UCART1	8.84
1,743	636246.16	4271112.29	UCART1	9.14
1,744	636286.16	4271112.29	UCART1	9.14
1,745	636326.16	4271112.29	UCART1	9.45
1,746	636366.16	4271112.29	UCART1	9.45
1,747	636406.16	4271112.29	UCART1	9.45
1,748	636446.16	4271112.29	UCART1	9.14
1,749	636486.16	4271112.29	UCART1	9.14
1,750	636526.16	4271112.29	UCART1	9.14
1,751	636566.16	4271112.29	UCART1	9.14
1,752	636606.16	4271112.29	UCART1	9.14
1,753	636646.16	4271112.29	UCART1	9.14
1,754	636686.16	4271112.29	UCART1	9.14
1,755	636726.16	4271112.29	UCART1	9.15
1,756	636766.16	4271112.29	UCART1	9.38
1,757	636806.16	4271112.29	UCART1	9.45
1,758	636846.16	4271112.29	UCART1	9.34
1,759	636886.16	4271112.29	UCART1	9.15
1,760	636926.16	4271112.29	UCART1	9.14
1,761	637006.16	4271112.29	UCART1	9.38
1,762	637046.16	4271112.29	UCART1	9.45
1,763	637086.16	4271112.29	UCART1	9.45
1,764	637126.16	4271112.29	UCART1	9.43
1,765	637166.16	4271112.29	UCART1	9.40
1,766	637206.16	4271112.29	UCART1	9.14
1,767	637246.16	4271112.29	UCART1	9.14
1,768	637286.16	4271112.29	UCART1	9.14
1,769	637886.16	4271112.29	UCART1	9.47
1,770	637926.16	4271112.29	UCART1	9.88
1,771	637966.16	4271112.29	UCART1	10.28
1,772	638086.16	4271112.29	UCART1	10.67
1,773	638126.16	4271112.29	UCART1	10.67
1,774	638166.16	4271112.29	UCART1	10.67
1,775	638206.16	4271112.29	UCART1	10.67
1,776	638246.16	4271112.29	UCART1	10.39
1,777	638286.16	4271112.29	UCART1	10.36
1,778	638326.16	4271112.29	UCART1	10.14

1,779	638366.16	4271112.29	UCART1	9.50
1,780	638406.16	4271112.29	UCART1	9.32
1,781	638446.16	4271112.29	UCART1	9.37
1,782	638486.16	4271112.29	UCART1	9.75
1,783	638526.16	4271112.29	UCART1	9.91
1,784	638566.16	4271112.29	UCART1	9.73
1,785	634726.16	4271152.29	UCART1	7.01
1,786	634766.16	4271152.29	UCART1	7.01
1,787	634806.16	4271152.29	UCART1	7.01
1,788	634846.16	4271152.29	UCART1	7.01
1,789	634886.16	4271152.29	UCART1	7.01
1,790	634926.16	4271152.29	UCART1	7.01
1,791	634966.16	4271152.29	UCART1	7.01
1,792	635006.16	4271152.29	UCART1	7.01
1,793	635046.16	4271152.29	UCART1	7.01
1,794	635086.16	4271152.29	UCART1	7.01
1,795	635126.16	4271152.29	UCART1	7.09
1,796	635166.16	4271152.29	UCART1	7.18
1,797	635286.16	4271152.29	UCART1	7.32
1,798	635326.16	4271152.29	UCART1	7.54
1,799	635366.16	4271152.29	UCART1	7.62
1,800	635406.16	4271152.29	UCART1	7.62
1,801	635446.16	4271152.29	UCART1	7.62
1,802	635486.16	4271152.29	UCART1	7.69
1,803	635526.16	4271152.29	UCART1	7.62
1,804	635566.16	4271152.29	UCART1	7.62
1,805	635606.16	4271152.29	UCART1	7.62
1,806	635646.16	4271152.29	UCART1	7.62
1,807	635686.16	4271152.29	UCART1	7.62
1,808	635726.16	4271152.29	UCART1	7.62
1,809	635766.16	4271152.29	UCART1	7.62
1,810	635806.16	4271152.29	UCART1	7.68
1,811	635846.16	4271152.29	UCART1	7.92
1,812	635886.16	4271152.29	UCART1	7.92
1,813	635926.16	4271152.29	UCART1	7.92
1,814	635966.16	4271152.29	UCART1	7.92
1,815	636006.16	4271152.29	UCART1	7.85
1,816	636046.16	4271152.29	UCART1	8.36

1,817	636206.16	4271152.29	UCART1	9.14
1,818	636246.16	4271152.29	UCART1	9.14
1,819	636286.16	4271152.29	UCART1	9.14
1,820	636326.16	4271152.29	UCART1	9.45
1,821	636366.16	4271152.29	UCART1	9.42
1,822	636406.16	4271152.29	UCART1	9.20
1,823	636446.16	4271152.29	UCART1	9.14
1,824	636486.16	4271152.29	UCART1	9.14
1,825	636526.16	4271152.29	UCART1	9.14
1,826	636566.16	4271152.29	UCART1	9.14
1,827	636606.16	4271152.29	UCART1	9.14
1,828	636646.16	4271152.29	UCART1	9.14
1,829	636686.16	4271152.29	UCART1	9.14
1,830	636726.16	4271152.29	UCART1	9.14
1,831	636766.16	4271152.29	UCART1	9.37
1,832	636806.16	4271152.29	UCART1	9.45
1,833	636846.16	4271152.29	UCART1	9.36
1,834	636886.16	4271152.29	UCART1	9.16
1,835	636926.16	4271152.29	UCART1	9.14
1,836	636966.16	4271152.29	UCART1	9.14
1,837	637046.16	4271152.29	UCART1	9.45
1,838	637086.16	4271152.29	UCART1	9.45
1,839	637126.16	4271152.29	UCART1	9.45
1,840	637166.16	4271152.29	UCART1	9.45
1,841	637206.16	4271152.29	UCART1	9.48
1,842	637246.16	4271152.29	UCART1	9.52
1,843	637286.16	4271152.29	UCART1	9.52
1,844	637886.16	4271152.29	UCART1	9.47
1,845	637926.16	4271152.29	UCART1	9.88
1,846	637966.16	4271152.29	UCART1	10.28
1,847	634686.16	4271192.29	UCART1	7.01
1,848	634726.16	4271192.29	UCART1	7.01
1,849	634766.16	4271192.29	UCART1	7.01
1,850	634806.16	4271192.29	UCART1	7.01
1,851	634846.16	4271192.29	UCART1	7.01
1,852	634886.16	4271192.29	UCART1	7.01
1,853	634926.16	4271192.29	UCART1	7.01
1,854	634966.16	4271192.29	UCART1	7.01

1,855	635006.16	4271192.29	UCART1	7.01
1,856	635046.16	4271192.29	UCART1	7.08
1,857	635086.16	4271192.29	UCART1	7.19
1,858	635126.16	4271192.29	UCART1	7.32
1,859	635166.16	4271192.29	UCART1	7.32
1,860	635246.16	4271192.29	UCART1	7.32
1,861	635326.16	4271192.29	UCART1	7.54
1,862	635366.16	4271192.29	UCART1	7.62
1,863	635406.16	4271192.29	UCART1	7.69
1,864	635446.16	4271192.29	UCART1	7.80
1,865	635486.16	4271192.29	UCART1	7.92
1,866	635526.16	4271192.29	UCART1	7.72
1,867	635566.16	4271192.29	UCART1	7.62
1,868	635606.16	4271192.29	UCART1	7.62
1,869	635646.16	4271192.29	UCART1	7.62
1,870	635686.16	4271192.29	UCART1	7.62
1,871	635726.16	4271192.29	UCART1	7.62
1,872	635766.16	4271192.29	UCART1	7.62
1,873	635846.16	4271192.29	UCART1	7.76
1,874	635926.16	4271192.29	UCART1	7.75
1,875	635966.16	4271192.29	UCART1	7.74
1,876	636006.16	4271192.29	UCART1	7.62
1,877	636166.16	4271192.29	UCART1	9.14
1,878	636206.16	4271192.29	UCART1	9.14
1,879	636246.16	4271192.29	UCART1	9.14
1,880	636286.16	4271192.29	UCART1	9.14
1,881	636326.16	4271192.29	UCART1	9.27
1,882	636366.16	4271192.29	UCART1	9.22
1,883	636406.16	4271192.29	UCART1	9.14
1,884	636446.16	4271192.29	UCART1	9.14
1,885	636486.16	4271192.29	UCART1	9.14
1,886	636526.16	4271192.29	UCART1	9.14
1,887	636566.16	4271192.29	UCART1	9.14
1,888	636606.16	4271192.29	UCART1	9.14
1,889	636646.16	4271192.29	UCART1	9.14
1,890	636686.16	4271192.29	UCART1	9.14
1,891	636726.16	4271192.29	UCART1	9.14
1,892	636766.16	4271192.29	UCART1	9.24

1,893	636806.16	4271192.29	UCART1	9.45
1,894	636846.16	4271192.29	UCART1	9.45
1,895	636886.16	4271192.29	UCART1	9.35
1,896	636926.16	4271192.29	UCART1	9.14
1,897	636966.16	4271192.29	UCART1	9.14
1,898	637006.16	4271192.29	UCART1	9.14
1,899	637046.16	4271192.29	UCART1	9.45
1,900	637086.16	4271192.29	UCART1	9.45
1,901	637206.16	4271192.29	UCART1	9.68
1,902	637246.16	4271192.29	UCART1	9.75
1,903	637806.16	4271192.29	UCART1	8.48
1,904	637846.16	4271192.29	UCART1	9.06
1,905	637886.16	4271192.29	UCART1	9.47
1,906	637926.16	4271192.29	UCART1	9.88
1,907	637966.16	4271192.29	UCART1	10.28
1,908	638086.16	4271192.29	UCART1	10.44
1,909	638126.16	4271192.29	UCART1	10.36
1,910	638166.16	4271192.29	UCART1	10.36
1,911	638206.16	4271192.29	UCART1	10.36
1,912	638246.16	4271192.29	UCART1	10.18
1,913	638286.16	4271192.29	UCART1	9.99
1,914	638326.16	4271192.29	UCART1	9.79
1,915	638366.16	4271192.29	UCART1	9.45
1,916	638406.16	4271192.29	UCART1	9.32
1,917	634646.16	4271232.29	UCART1	7.31
1,918	634686.16	4271232.29	UCART1	7.29
1,919	634726.16	4271232.29	UCART1	7.08
1,920	634766.16	4271232.29	UCART1	7.01
1,921	634806.16	4271232.29	UCART1	7.12
1,922	634846.16	4271232.29	UCART1	7.29
1,923	634886.16	4271232.29	UCART1	7.29
1,924	634926.16	4271232.29	UCART1	7.29
1,925	634966.16	4271232.29	UCART1	7.29
1,926	635006.16	4271232.29	UCART1	7.29
1,927	635046.16	4271232.29	UCART1	7.30
1,928	635086.16	4271232.29	UCART1	7.32
1,929	635126.16	4271232.29	UCART1	7.32
1,930	635206.16	4271232.29	UCART1	7.32

1,931	635246.16	4271232.29	UCART1	7.32
1,932	635366.16	4271232.29	UCART1	7.64
1,933	635406.16	4271232.29	UCART1	7.91
1,934	635446.16	4271232.29	UCART1	7.92
1,935	635486.16	4271232.29	UCART1	7.92
1,936	635526.16	4271232.29	UCART1	7.91
1,937	635566.16	4271232.29	UCART1	7.90
1,938	635606.16	4271232.29	UCART1	7.62
1,939	635646.16	4271232.29	UCART1	7.62
1,940	635686.16	4271232.29	UCART1	7.62
1,941	635726.16	4271232.29	UCART1	7.62
1,942	635766.16	4271232.29	UCART1	7.62
1,943	635806.16	4271232.29	UCART1	7.62
1,944	635846.16	4271232.29	UCART1	7.62
1,945	635886.16	4271232.29	UCART1	7.64
1,946	635926.16	4271232.29	UCART1	7.62
1,947	636126.16	4271232.29	UCART1	9.14
1,948	636166.16	4271232.29	UCART1	9.14
1,949	636206.16	4271232.29	UCART1	9.14
1,950	636246.16	4271232.29	UCART1	9.14
1,951	636286.16	4271232.29	UCART1	9.14
1,952	636326.16	4271232.29	UCART1	9.14
1,953	636366.16	4271232.29	UCART1	9.14
1,954	636406.16	4271232.29	UCART1	9.14
1,955	636446.16	4271232.29	UCART1	9.14
1,956	636486.16	4271232.29	UCART1	9.14
1,957	636526.16	4271232.29	UCART1	9.14
1,958	636566.16	4271232.29	UCART1	9.14
1,959	636606.16	4271232.29	UCART1	9.14
1,960	636646.16	4271232.29	UCART1	9.14
1,961	636686.16	4271232.29	UCART1	9.14
1,962	636726.16	4271232.29	UCART1	9.14
1,963	636766.16	4271232.29	UCART1	9.14
1,964	636806.16	4271232.29	UCART1	9.45
1,965	636846.16	4271232.29	UCART1	9.45
1,966	636886.16	4271232.29	UCART1	9.45
1,967	636926.16	4271232.29	UCART1	9.42
1,968	636966.16	4271232.29	UCART1	9.42

1,969	637006.16	4271232.29	UCART1	9.42
1,970	637206.16	4271232.29	UCART1	10.14
1,971	637246.16	4271232.29	UCART1	10.10
1,972	637806.16	4271232.29	UCART1	8.59
1,973	637846.16	4271232.29	UCART1	9.34
1,974	637886.16	4271232.29	UCART1	9.47
1,975	637926.16	4271232.29	UCART1	9.88
1,976	637966.16	4271232.29	UCART1	10.28
1,977	638086.16	4271232.29	UCART1	10.44
1,978	638126.16	4271232.29	UCART1	10.36
1,979	638166.16	4271232.29	UCART1	10.36
1,980	638206.16	4271232.29	UCART1	10.16
1,981	638246.16	4271232.29	UCART1	10.04
1,982	638286.16	4271232.29	UCART1	9.77
1,983	638326.16	4271232.29	UCART1	9.75
1,984	638366.16	4271232.29	UCART1	9.45
1,985	638406.16	4271232.29	UCART1	9.32
1,986	634686.16	4271272.29	UCART1	7.36
1,987	634726.16	4271272.29	UCART1	7.32
1,988	634766.16	4271272.29	UCART1	7.32
1,989	634806.16	4271272.29	UCART1	7.32
1,990	634846.16	4271272.29	UCART1	7.32
1,991	634886.16	4271272.29	UCART1	7.32
1,992	634926.16	4271272.29	UCART1	7.32
1,993	634966.16	4271272.29	UCART1	7.32
1,994	635006.16	4271272.29	UCART1	7.32
1,995	635046.16	4271272.29	UCART1	7.32
1,996	635086.16	4271272.29	UCART1	7.32
1,997	635126.16	4271272.29	UCART1	7.32
1,998	635166.16	4271272.29	UCART1	7.32
1,999	635206.16	4271272.29	UCART1	7.32
2,000	635246.16	4271272.29	UCART1	7.32
2,001	635286.16	4271272.29	UCART1	7.44
2,002	635366.16	4271272.29	UCART1	7.71
2,003	635406.16	4271272.29	UCART1	7.92
2,004	635446.16	4271272.29	UCART1	7.98
2,005	635486.16	4271272.29	UCART1	7.92
2,006	635526.16	4271272.29	UCART1	7.92

2,007	635566.16	4271272.29	UCART1	7.92
2,008	635606.16	4271272.29	UCART1	7.90
2,009	635646.16	4271272.29	UCART1	7.62
2,010	635686.16	4271272.29	UCART1	7.62
2,011	635726.16	4271272.29	UCART1	7.62
2,012	635766.16	4271272.29	UCART1	7.62
2,013	635806.16	4271272.29	UCART1	7.62
2,014	635846.16	4271272.29	UCART1	7.69
2,015	636046.16	4271272.29	UCART1	9.20
2,016	636086.16	4271272.29	UCART1	9.14
2,017	636126.16	4271272.29	UCART1	9.14
2,018	636166.16	4271272.29	UCART1	9.09
2,019	636206.16	4271272.29	UCART1	9.07
2,020	636246.16	4271272.29	UCART1	9.07
2,021	636286.16	4271272.29	UCART1	8.90
2,022	636326.16	4271272.29	UCART1	9.07
2,023	636366.16	4271272.29	UCART1	9.14
2,024	636406.16	4271272.29	UCART1	9.14
2,025	636446.16	4271272.29	UCART1	9.14
2,026	636486.16	4271272.29	UCART1	9.14
2,027	636526.16	4271272.29	UCART1	9.14
2,028	636566.16	4271272.29	UCART1	9.07
2,029	636606.16	4271272.29	UCART1	9.14
2,030	636646.16	4271272.29	UCART1	9.14
2,031	636686.16	4271272.29	UCART1	9.14
2,032	636726.16	4271272.29	UCART1	9.14
2,033	636766.16	4271272.29	UCART1	9.14
2,034	636806.16	4271272.29	UCART1	9.38
2,035	636846.16	4271272.29	UCART1	9.45
2,036	636886.16	4271272.29	UCART1	9.45
2,037	636926.16	4271272.29	UCART1	9.45
2,038	636966.16	4271272.29	UCART1	9.45
2,039	637006.16	4271272.29	UCART1	9.45
2,040	637046.16	4271272.29	UCART1	9.45
2,041	637806.16	4271272.29	UCART1	8.80
2,042	637846.16	4271272.29	UCART1	9.29
2,043	637886.16	4271272.29	UCART1	9.47
2,044	637926.16	4271272.29	UCART1	9.88

2,045	637966.16	4271272.29	UCART1	10.28
2,046	638086.16	4271272.29	UCART1	10.44
2,047	638126.16	4271272.29	UCART1	10.36
2,048	638166.16	4271272.29	UCART1	10.24
2,049	638206.16	4271272.29	UCART1	10.06
2,050	638246.16	4271272.29	UCART1	10.04
2,051	638286.16	4271272.29	UCART1	9.75
2,052	638326.16	4271272.29	UCART1	9.53
2,053	638366.16	4271272.29	UCART1	9.43
2,054	638406.16	4271272.29	UCART1	9.14
2,055	634766.16	4271312.29	UCART1	7.32
2,056	634806.16	4271312.29	UCART1	7.32
2,057	634846.16	4271312.29	UCART1	7.32
2,058	634886.16	4271312.29	UCART1	7.33
2,059	634926.16	4271312.29	UCART1	7.49
2,060	634966.16	4271312.29	UCART1	7.49
2,061	635006.16	4271312.29	UCART1	7.49
2,062	635046.16	4271312.29	UCART1	7.42
2,063	635086.16	4271312.29	UCART1	7.32
2,064	635126.16	4271312.29	UCART1	7.32
2,065	635166.16	4271312.29	UCART1	7.32
2,066	635206.16	4271312.29	UCART1	7.32
2,067	635246.16	4271312.29	UCART1	7.33
2,068	635286.16	4271312.29	UCART1	7.54
2,069	635326.16	4271312.29	UCART1	7.62
2,070	635406.16	4271312.29	UCART1	8.00
2,071	635446.16	4271312.29	UCART1	8.20
2,072	635486.16	4271312.29	UCART1	8.09
2,073	635526.16	4271312.29	UCART1	7.92
2,074	635566.16	4271312.29	UCART1	7.92
2,075	635606.16	4271312.29	UCART1	7.90
2,076	635646.16	4271312.29	UCART1	7.62
2,077	635686.16	4271312.29	UCART1	7.62
2,078	635726.16	4271312.29	UCART1	7.62
2,079	635766.16	4271312.29	UCART1	7.69
2,080	635966.16	4271312.29	UCART1	9.26
2,081	636006.16	4271312.29	UCART1	9.14
2,082	636046.16	4271312.29	UCART1	9.14

2,083	636086.16	4271312.29	UCART1	8.97
2,084	636126.16	4271312.29	UCART1	8.97
2,085	636166.16	4271312.29	UCART1	8.87
2,086	636206.16	4271312.29	UCART1	8.83
2,087	636246.16	4271312.29	UCART1	8.66
2,088	636286.16	4271312.29	UCART1	8.66
2,089	636326.16	4271312.29	UCART1	8.85
2,090	636366.16	4271312.29	UCART1	8.97
2,091	636406.16	4271312.29	UCART1	8.97
2,092	636446.16	4271312.29	UCART1	8.97
2,093	636486.16	4271312.29	UCART1	8.97
2,094	636526.16	4271312.29	UCART1	8.97
2,095	636566.16	4271312.29	UCART1	8.85
2,096	636606.16	4271312.29	UCART1	9.04
2,097	636646.16	4271312.29	UCART1	9.14
2,098	636686.16	4271312.29	UCART1	9.14
2,099	636726.16	4271312.29	UCART1	9.14
2,100	636766.16	4271312.29	UCART1	9.14
2,101	636806.16	4271312.29	UCART1	9.17
2,102	636846.16	4271312.29	UCART1	9.45
2,103	636886.16	4271312.29	UCART1	9.45
2,104	636926.16	4271312.29	UCART1	9.45
2,105	636966.16	4271312.29	UCART1	9.52
2,106	637006.16	4271312.29	UCART1	9.63
2,107	637046.16	4271312.29	UCART1	9.63
2,108	637086.16	4271312.29	UCART1	9.75
2,109	637886.16	4271312.29	UCART1	9.47
2,110	637926.16	4271312.29	UCART1	9.88
2,111	637966.16	4271312.29	UCART1	10.28
2,112	638086.16	4271312.29	UCART1	10.44
2,113	638126.16	4271312.29	UCART1	10.35
2,114	638166.16	4271312.29	UCART1	10.13
2,115	638206.16	4271312.29	UCART1	10.06
2,116	638246.16	4271312.29	UCART1	9.87
2,117	638286.16	4271312.29	UCART1	9.75
2,118	638326.16	4271312.29	UCART1	9.53
2,119	638366.16	4271312.29	UCART1	9.43
2,120	638406.16	4271312.29	UCART1	9.14

2,121	634806.16	4271352.29	UCART1	7.32
2,122	634846.16	4271352.29	UCART1	7.32
2,123	634886.16	4271352.29	UCART1	7.34
2,124	634926.16	4271352.29	UCART1	7.62
2,125	634966.16	4271352.29	UCART1	7.62
2,126	635006.16	4271352.29	UCART1	7.62
2,127	635046.16	4271352.29	UCART1	7.61
2,128	635126.16	4271352.29	UCART1	7.59
2,129	635166.16	4271352.29	UCART1	7.59
2,130	635206.16	4271352.29	UCART1	7.59
2,131	635246.16	4271352.29	UCART1	7.60
2,132	635286.16	4271352.29	UCART1	7.62
2,133	635326.16	4271352.29	UCART1	7.62
2,134	635366.16	4271352.29	UCART1	7.92
2,135	635446.16	4271352.29	UCART1	8.23
2,136	635486.16	4271352.29	UCART1	8.21
2,137	635526.16	4271352.29	UCART1	7.92
2,138	635566.16	4271352.29	UCART1	7.72
2,139	635606.16	4271352.29	UCART1	7.90
2,140	635646.16	4271352.29	UCART1	7.73
2,141	635686.16	4271352.29	UCART1	7.90
2,142	635846.16	4271352.29	UCART1	9.33
2,143	635886.16	4271352.29	UCART1	9.15
2,144	635926.16	4271352.29	UCART1	9.15
2,145	635966.16	4271352.29	UCART1	9.12
2,146	636006.16	4271352.29	UCART1	8.87
2,147	636046.16	4271352.29	UCART1	8.87
2,148	636086.16	4271352.29	UCART1	8.82
2,149	636126.16	4271352.29	UCART1	8.56
2,150	636166.16	4271352.29	UCART1	8.56
2,151	636206.16	4271352.29	UCART1	8.56
2,152	636246.16	4271352.29	UCART1	8.53
2,153	636286.16	4271352.29	UCART1	8.53
2,154	636326.16	4271352.29	UCART1	8.56
2,155	636366.16	4271352.29	UCART1	8.56
2,156	636646.16	4271352.29	UCART1	9.14
2,157	636686.16	4271352.29	UCART1	9.14
2,158	636726.16	4271352.29	UCART1	9.14

2,159	636766.16	4271352.29	UCART1	9.14
2,160	636806.16	4271352.29	UCART1	9.15
2,161	636846.16	4271352.29	UCART1	9.17
2,162	636886.16	4271352.29	UCART1	9.38
2,163	636926.16	4271352.29	UCART1	9.45
2,164	636966.16	4271352.29	UCART1	9.57
2,165	637006.16	4271352.29	UCART1	9.75
2,166	637046.16	4271352.29	UCART1	9.77
2,167	637086.16	4271352.29	UCART1	9.92
2,168	637886.16	4271352.29	UCART1	9.47
2,169	637926.16	4271352.29	UCART1	9.88
2,170	637966.16	4271352.29	UCART1	10.28
2,171	638086.16	4271352.29	UCART1	10.44
2,172	638126.16	4271352.29	UCART1	10.34
2,173	638166.16	4271352.29	UCART1	10.06
2,174	638206.16	4271352.29	UCART1	10.06
2,175	638246.16	4271352.29	UCART1	9.75
2,176	638286.16	4271352.29	UCART1	9.75
2,177	638326.16	4271352.29	UCART1	9.53
2,178	638366.16	4271352.29	UCART1	9.43
2,179	638406.16	4271352.29	UCART1	9.14
2,180	634886.16	4271392.29	UCART1	7.62
2,181	634926.16	4271392.29	UCART1	7.65
2,182	634966.16	4271392.29	UCART1	7.86
2,183	635006.16	4271392.29	UCART1	7.69
2,184	635086.16	4271392.29	UCART1	7.62
2,185	635126.16	4271392.29	UCART1	7.62
2,186	635166.16	4271392.29	UCART1	7.62
2,187	635206.16	4271392.29	UCART1	7.68
2,188	635246.16	4271392.29	UCART1	7.62
2,189	635286.16	4271392.29	UCART1	7.62
2,190	635326.16	4271392.29	UCART1	7.68
2,191	635366.16	4271392.29	UCART1	7.95
2,192	635406.16	4271392.29	UCART1	8.26
2,193	635446.16	4271392.29	UCART1	8.25
2,194	635486.16	4271392.29	UCART1	8.21
2,195	635526.16	4271392.29	UCART1	7.80
2,196	635566.16	4271392.29	UCART1	7.68

2,197	635606.16	4271392.29	UCART1	7.83
2,198	635766.16	4271392.29	UCART1	9.14
2,199	635806.16	4271392.29	UCART1	9.14
2,200	635846.16	4271392.29	UCART1	9.07
2,201	635886.16	4271392.29	UCART1	9.07
2,202	635926.16	4271392.29	UCART1	8.84
2,203	635966.16	4271392.29	UCART1	8.76
2,204	636006.16	4271392.29	UCART1	8.64
2,205	636046.16	4271392.29	UCART1	8.46
2,206	636086.16	4271392.29	UCART1	8.46
2,207	636126.16	4271392.29	UCART1	8.37
2,208	636166.16	4271392.29	UCART1	8.23
2,209	636206.16	4271392.29	UCART1	8.23
2,210	636246.16	4271392.29	UCART1	8.20
2,211	636286.16	4271392.29	UCART1	8.15
2,212	636326.16	4271392.29	UCART1	8.15
2,213	636366.16	4271392.29	UCART1	8.15
2,214	636406.16	4271392.29	UCART1	8.15
2,215	636446.16	4271392.29	UCART1	8.15
2,216	636486.16	4271392.29	UCART1	8.15
2,217	636526.16	4271392.29	UCART1	8.55
2,218	636566.16	4271392.29	UCART1	8.93
2,219	636606.16	4271392.29	UCART1	9.14
2,220	636646.16	4271392.29	UCART1	9.14
2,221	636686.16	4271392.29	UCART1	9.14
2,222	636726.16	4271392.29	UCART1	9.14
2,223	636766.16	4271392.29	UCART1	9.14
2,224	636806.16	4271392.29	UCART1	9.14
2,225	636846.16	4271392.29	UCART1	9.14
2,226	636886.16	4271392.29	UCART1	9.14
2,227	636926.16	4271392.29	UCART1	9.38
2,228	636966.16	4271392.29	UCART1	9.57
2,229	637006.16	4271392.29	UCART1	9.81
2,230	637046.16	4271392.29	UCART1	10.13
2,231	637886.16	4271392.29	UCART1	9.47
2,232	637926.16	4271392.29	UCART1	9.88
2,233	637966.16	4271392.29	UCART1	10.28
2,234	638086.16	4271392.29	UCART1	10.44

2,235	638126.16	4271392.29	UCART1	10.34
2,236	638166.16	4271392.29	UCART1	10.06
2,237	638206.16	4271392.29	UCART1	10.00
2,238	638246.16	4271392.29	UCART1	9.75
2,239	638326.16	4271392.29	UCART1	9.51
2,240	638366.16	4271392.29	UCART1	9.43
2,241	638406.16	4271392.29	UCART1	9.14
2,242	634926.16	4271432.29	UCART1	7.67
2,243	634966.16	4271432.29	UCART1	7.88
2,244	635006.16	4271432.29	UCART1	7.92
2,245	635046.16	4271432.29	UCART1	7.80
2,246	635086.16	4271432.29	UCART1	7.80
2,247	635126.16	4271432.29	UCART1	7.80
2,248	635166.16	4271432.29	UCART1	7.80
2,249	635206.16	4271432.29	UCART1	7.89
2,250	635246.16	4271432.29	UCART1	7.80
2,251	635286.16	4271432.29	UCART1	7.80
2,252	635326.16	4271432.29	UCART1	8.02
2,253	635366.16	4271432.29	UCART1	8.12
2,254	635406.16	4271432.29	UCART1	8.46
2,255	635486.16	4271432.29	UCART1	8.04
2,256	635526.16	4271432.29	UCART1	7.87
2,257	635686.16	4271432.29	UCART1	9.12
2,258	635726.16	4271432.29	UCART1	9.14
2,259	635766.16	4271432.29	UCART1	9.07
2,260	635806.16	4271432.29	UCART1	8.97
2,261	635846.16	4271432.29	UCART1	8.66
2,262	635886.16	4271432.29	UCART1	8.66
2,263	635926.16	4271432.29	UCART1	8.44
2,264	635966.16	4271432.29	UCART1	8.36
2,265	636006.16	4271432.29	UCART1	8.31
2,266	636046.16	4271432.29	UCART1	8.10
2,267	636086.16	4271432.29	UCART1	8.05
2,268	636126.16	4271432.29	UCART1	8.05
2,269	636166.16	4271432.29	UCART1	8.05
2,270	636206.16	4271432.29	UCART1	8.05
2,271	637886.16	4271432.29	UCART1	9.47
2,272	637926.16	4271432.29	UCART1	9.88

2,273	637966.16	4271432.29	UCART1	10.28
2,274	638086.16	4271432.29	UCART1	10.44
2,275	638126.16	4271432.29	UCART1	10.34
2,276	638166.16	4271432.29	UCART1	10.06
2,277	638206.16	4271432.29	UCART1	9.83
2,278	638246.16	4271432.29	UCART1	9.75
2,279	638366.16	4271432.29	UCART1	9.43
2,280	638406.16	4271432.29	UCART1	9.14
2,281	635046.16	4271472.29	UCART1	7.92
2,282	635086.16	4271472.29	UCART1	7.92
2,283	635126.16	4271472.29	UCART1	7.95
2,284	635166.16	4271472.29	UCART1	8.20
2,285	635206.16	4271472.29	UCART1	8.20
2,286	635246.16	4271472.29	UCART1	8.20
2,287	635286.16	4271472.29	UCART1	8.20
2,288	635326.16	4271472.29	UCART1	8.43
2,289	635366.16	4271472.29	UCART1	8.53
2,290	635406.16	4271472.29	UCART1	8.81
2,291	635446.16	4271472.29	UCART1	8.83
2,292	635606.16	4271472.29	UCART1	9.35
2,293	635646.16	4271472.29	UCART1	9.15
2,294	635686.16	4271472.29	UCART1	9.15
2,295	635726.16	4271472.29	UCART1	8.87
2,296	635766.16	4271472.29	UCART1	8.86
2,297	635806.16	4271472.29	UCART1	8.63
2,298	635846.16	4271472.29	UCART1	8.51
2,299	635886.16	4271472.29	UCART1	8.26
2,300	635926.16	4271472.29	UCART1	8.03
2,301	635966.16	4271472.29	UCART1	7.95
2,302	637886.16	4271472.29	UCART1	9.47
2,303	637926.16	4271472.29	UCART1	9.88
2,304	637966.16	4271472.29	UCART1	10.28
2,305	638086.16	4271472.29	UCART1	10.37
2,306	638126.16	4271472.29	UCART1	10.34
2,307	638166.16	4271472.29	UCART1	9.95
2,308	638206.16	4271472.29	UCART1	9.76
2,309	638326.16	4271472.29	UCART1	9.45
2,310	638366.16	4271472.29	UCART1	9.45

2,311	638406.16	4271472.29	UCART1	9.31
2,312	634126.16	4271512.29	UCART1	7.30
2,313	634166.16	4271512.29	UCART1	7.13
2,314	634206.16	4271512.29	UCART1	6.15
2,315	634246.16	4271512.29	UCART1	5.17
2,316	634286.16	4271512.29	UCART1	6.44
2,317	634326.16	4271512.29	UCART1	6.98
2,318	634366.16	4271512.29	UCART1	7.17
2,319	634406.16	4271512.29	UCART1	7.16
2,320	634446.16	4271512.29	UCART1	6.72
2,321	635046.16	4271512.29	UCART1	8.23
2,322	635086.16	4271512.29	UCART1	8.28
2,323	635126.16	4271512.29	UCART1	8.30
2,324	635166.16	4271512.29	UCART1	8.30
2,325	635206.16	4271512.29	UCART1	8.47
2,326	635246.16	4271512.29	UCART1	8.61
2,327	635286.16	4271512.29	UCART1	8.61
2,328	635326.16	4271512.29	UCART1	8.78
2,329	635526.16	4271512.29	UCART1	9.07
2,330	635726.16	4271512.29	UCART1	8.74
2,331	635766.16	4271512.29	UCART1	8.46
2,332	635806.16	4271512.29	UCART1	8.23
2,333	635846.16	4271512.29	UCART1	8.13
2,334	634126.16	4271552.29	UCART1	6.66
2,335	634166.16	4271552.29	UCART1	6.14
2,336	634206.16	4271552.29	UCART1	5.31
2,337	634246.16	4271552.29	UCART1	4.88
2,338	634286.16	4271552.29	UCART1	5.36
2,339	634326.16	4271552.29	UCART1	6.17
2,340	634366.16	4271552.29	UCART1	6.35
2,341	634406.16	4271552.29	UCART1	6.30
2,342	634446.16	4271552.29	UCART1	5.45
2,343	634486.16	4271552.29	UCART1	5.93
2,344	634526.16	4271552.29	UCART1	7.00
2,345	634566.16	4271552.29	UCART1	7.50
2,346	635446.16	4271552.29	UCART1	9.01
2,347	635486.16	4271552.29	UCART1	8.96
2,348	635566.16	4271552.29	UCART1	9.06

2,349	635606.16	4271552.29	UCART1	8.97
2,350	635686.16	4271552.29	UCART1	8.74
2,351	635726.16	4271552.29	UCART1	8.35
2,352	635766.16	4271552.29	UCART1	8.16
2,353	634006.16	4271592.29	UCART1	6.51
2,354	634046.16	4271592.29	UCART1	6.12
2,355	634086.16	4271592.29	UCART1	6.22
2,356	634126.16	4271592.29	UCART1	6.20
2,357	634166.16	4271592.29	UCART1	5.75
2,358	634206.16	4271592.29	UCART1	4.96
2,359	634246.16	4271592.29	UCART1	4.80
2,360	634286.16	4271592.29	UCART1	5.21
2,361	634326.16	4271592.29	UCART1	5.52
2,362	634366.16	4271592.29	UCART1	5.54
2,363	634406.16	4271592.29	UCART1	5.00
2,364	634446.16	4271592.29	UCART1	5.31
2,365	634486.16	4271592.29	UCART1	5.94
2,366	634526.16	4271592.29	UCART1	6.47
2,367	634566.16	4271592.29	UCART1	7.04
2,368	634606.16	4271592.29	UCART1	7.26
2,369	634646.16	4271592.29	UCART1	7.35
2,370	635086.16	4271592.29	UCART1	8.74
2,371	635126.16	4271592.29	UCART1	8.81
2,372	635166.16	4271592.29	UCART1	8.84
2,373	635206.16	4271592.29	UCART1	9.04
2,374	635246.16	4271592.29	UCART1	9.12
2,375	635366.16	4271592.29	UCART1	9.12
2,376	635486.16	4271592.29	UCART1	8.84
2,377	635526.16	4271592.29	UCART1	8.84
2,378	635566.16	4271592.29	UCART1	8.86
2,379	635646.16	4271592.29	UCART1	8.56
2,380	635686.16	4271592.29	UCART1	8.34
2,381	634046.16	4271632.29	UCART1	6.17
2,382	634086.16	4271632.29	UCART1	6.10
2,383	634126.16	4271632.29	UCART1	6.10
2,384	634166.16	4271632.29	UCART1	6.06
2,385	634206.16	4271632.29	UCART1	5.26
2,386	634246.16	4271632.29	UCART1	4.84

2,387	634286.16	4271632.29	UCART1	5.11
2,388	634326.16	4271632.29	UCART1	5.08
2,389	634366.16	4271632.29	UCART1	4.92
2,390	634406.16	4271632.29	UCART1	4.79
2,391	634446.16	4271632.29	UCART1	4.86
2,392	634486.16	4271632.29	UCART1	5.86
2,393	634526.16	4271632.29	UCART1	6.40
2,394	634566.16	4271632.29	UCART1	6.40
2,395	634606.16	4271632.29	UCART1	6.57
2,396	634646.16	4271632.29	UCART1	6.86
2,397	634686.16	4271632.29	UCART1	6.95
2,398	635086.16	4271632.29	UCART1	8.89
2,399	635126.16	4271632.29	UCART1	8.93
2,400	635166.16	4271632.29	UCART1	9.14
2,401	635286.16	4271632.29	UCART1	9.07
2,402	635406.16	4271632.29	UCART1	8.84
2,403	635446.16	4271632.29	UCART1	8.84
2,404	635486.16	4271632.29	UCART1	8.84
2,405	635526.16	4271632.29	UCART1	8.88
2,406	635606.16	4271632.29	UCART1	8.44
2,407	635646.16	4271632.29	UCART1	8.06
2,408	634086.16	4271672.29	UCART1	6.52
2,409	634126.16	4271672.29	UCART1	6.49
2,410	634166.16	4271672.29	UCART1	6.44
2,411	634206.16	4271672.29	UCART1	6.12
2,412	634246.16	4271672.29	UCART1	5.66
2,413	634286.16	4271672.29	UCART1	5.03
2,414	634326.16	4271672.29	UCART1	4.65
2,415	634366.16	4271672.29	UCART1	4.67
2,416	634406.16	4271672.29	UCART1	4.61
2,417	634446.16	4271672.29	UCART1	5.25
2,418	634486.16	4271672.29	UCART1	5.95
2,419	634526.16	4271672.29	UCART1	6.22
2,420	634566.16	4271672.29	UCART1	6.22
2,421	634606.16	4271672.29	UCART1	6.22
2,422	634646.16	4271672.29	UCART1	6.22
2,423	634686.16	4271672.29	UCART1	6.22
2,424	634726.16	4271672.29	UCART1	6.22

2,425	635206.16	4271672.29	UCART1	9.14
2,426	635326.16	4271672.29	UCART1	8.84
2,427	635366.16	4271672.29	UCART1	8.66
2,428	635406.16	4271672.29	UCART1	8.66
2,429	635446.16	4271672.29	UCART1	8.79
2,430	635486.16	4271672.29	UCART1	8.86
2,431	635566.16	4271672.29	UCART1	8.48
2,432	634126.16	4271712.29	UCART1	7.34
2,433	634166.16	4271712.29	UCART1	6.98
2,434	634206.16	4271712.29	UCART1	6.84
2,435	634246.16	4271712.29	UCART1	6.45
2,436	634286.16	4271712.29	UCART1	6.27
2,437	634326.16	4271712.29	UCART1	5.85
2,438	634366.16	4271712.29	UCART1	5.07
2,439	634406.16	4271712.29	UCART1	5.19
2,440	634446.16	4271712.29	UCART1	6.04
2,441	634486.16	4271712.29	UCART1	6.09
2,442	634526.16	4271712.29	UCART1	6.12
2,443	634566.16	4271712.29	UCART1	6.37
2,444	634606.16	4271712.29	UCART1	6.37
2,445	634646.16	4271712.29	UCART1	6.37
2,446	634686.16	4271712.29	UCART1	6.37
2,447	634726.16	4271712.29	UCART1	6.37
2,448	634766.16	4271712.29	UCART1	7.29
2,449	635166.16	4271712.29	UCART1	9.14
2,450	635246.16	4271712.29	UCART1	8.84
2,451	635286.16	4271712.29	UCART1	8.84
2,452	635326.16	4271712.29	UCART1	8.84
2,453	635366.16	4271712.29	UCART1	8.53
2,454	635406.16	4271712.29	UCART1	8.53
2,455	635446.16	4271712.29	UCART1	8.55
2,456	635526.16	4271712.29	UCART1	8.91
2,457	634206.16	4271752.29	UCART1	7.39
2,458	634246.16	4271752.29	UCART1	6.94
2,459	634286.16	4271752.29	UCART1	6.47
2,460	634326.16	4271752.29	UCART1	6.31
2,461	634366.16	4271752.29	UCART1	6.17
2,462	634406.16	4271752.29	UCART1	6.20

2,463	634446.16	4271752.29	UCART1	6.55
2,464	634486.16	4271752.29	UCART1	6.55
2,465	634526.16	4271752.29	UCART1	6.78
2,466	634566.16	4271752.29	UCART1	6.78
2,467	634606.16	4271752.29	UCART1	6.78
2,468	634646.16	4271752.29	UCART1	6.76
2,469	634726.16	4271752.29	UCART1	6.48
2,470	634766.16	4271752.29	UCART1	7.05
2,471	634806.16	4271752.29	UCART1	7.45
2,472	635206.16	4271752.29	UCART1	8.84
2,473	635246.16	4271752.29	UCART1	8.84
2,474	635286.16	4271752.29	UCART1	8.84
2,475	635326.16	4271752.29	UCART1	8.61
2,476	635366.16	4271752.29	UCART1	8.53
2,477	635406.16	4271752.29	UCART1	8.37
2,478	635486.16	4271752.29	UCART1	7.96
2,479	634366.16	4271792.29	UCART1	6.58
2,480	634406.16	4271792.29	UCART1	6.95
2,481	634446.16	4271792.29	UCART1	7.19
2,482	634486.16	4271792.29	UCART1	7.19
2,483	634526.16	4271792.29	UCART1	7.19
2,484	634566.16	4271792.29	UCART1	7.19
2,485	634606.16	4271792.29	UCART1	7.19
2,486	634646.16	4271792.29	UCART1	7.18
2,487	634726.16	4271792.29	UCART1	6.88
2,488	634766.16	4271792.29	UCART1	7.03
2,489	634806.16	4271792.29	UCART1	7.32
2,490	634846.16	4271792.29	UCART1	7.54
2,491	635046.16	4271792.29	UCART1	9.07
2,492	635206.16	4271792.29	UCART1	9.02
2,493	635246.16	4271792.29	UCART1	9.02
2,494	635286.16	4271792.29	UCART1	8.94
2,495	635326.16	4271792.29	UCART1	8.74
2,496	635446.16	4271792.29	UCART1	7.96
2,497	634606.16	4271832.29	UCART1	7.59
2,498	634646.16	4271832.29	UCART1	7.59
2,499	634686.16	4271832.29	UCART1	7.47
2,500	634726.16	4271832.29	UCART1	7.29

2,501	634766.16	4271832.29	UCART1	7.29
2,502	634806.16	4271832.29	UCART1	7.32
2,503	634846.16	4271832.29	UCART1	7.34
2,504	635006.16	4271832.29	UCART1	9.16
2,505	635046.16	4271832.29	UCART1	9.30
2,506	635126.16	4271832.29	UCART1	9.42
2,507	635166.16	4271832.29	UCART1	9.42
2,508	635206.16	4271832.29	UCART1	9.42
2,509	635246.16	4271832.29	UCART1	9.42
2,510	635286.16	4271832.29	UCART1	9.30
2,511	635366.16	4271832.29	UCART1	9.12
2,512	635006.16	4271872.29	UCART1	8.60
2,513	635046.16	4271872.29	UCART1	8.54
2,514	635086.16	4271872.29	UCART1	8.99
2,515	635126.16	4271872.29	UCART1	9.47
2,516	635166.16	4271872.29	UCART1	9.68
2,517	635326.16	4271872.29	UCART1	9.09
2,518	635006.16	4271912.29	UCART1	7.75
2,519	635046.16	4271912.29	UCART1	7.92
2,520	635086.16	4271912.29	UCART1	8.67
2,521	635126.16	4271912.29	UCART1	9.27
2,522	635166.16	4271912.29	UCART1	9.27
2,523	635206.16	4271912.29	UCART1	9.27
2,524	635246.16	4271912.29	UCART1	9.11
2,525	635286.16	4271912.29	UCART1	9.15
2,526	635126.16	4271952.29	UCART1	9.14
2,527	635166.16	4271952.29	UCART1	9.14
2,528	635206.16	4271952.29	UCART1	9.14
2,529	635246.16	4271952.29	UCART1	8.84
2,530	635166.16	4271992.29	UCART1	9.07
2,531	635206.16	4271992.29	UCART1	9.01
2,532	633966.16	4272112.29	UCART1	9.55
2,533	634966.16	4272232.29	UCART1	9.39
2,534	634966.16	4272272.29	UCART1	8.10
2,535	635006.16	4272272.29	UCART1	7.41
2,536	634926.16	4272312.29	UCART1	7.97
2,537	634966.16	4272312.29	UCART1	7.93
2,538	638685.93	4268031.35	UCART1	11.55

2,539	638365.93	4268071.35	UCART1	12.63
2,540	638405.93	4268071.35	UCART1	12.63
2,541	638685.93	4268071.35	UCART1	10.97
2,542	638205.93	4268111.35	UCART1	12.53
2,543	638245.93	4268111.35	UCART1	12.53
2,544	638285.93	4268111.35	UCART1	12.52
2,545	638325.93	4268111.35	UCART1	12.50
2,546	638365.93	4268111.35	UCART1	12.23
2,547	638405.93	4268111.35	UCART1	12.34
2,548	638685.93	4268111.35	UCART1	10.76
2,549	638925.93	4268111.35	UCART1	12.49
2,550	638965.93	4268111.35	UCART1	12.82
2,551	639005.93	4268111.35	UCART1	13.07
2,552	638085.93	4268151.35	UCART1	12.26
2,553	638125.93	4268151.35	UCART1	12.19
2,554	638165.93	4268151.35	UCART1	12.29
2,555	638205.93	4268151.35	UCART1	12.43
2,556	638245.93	4268151.35	UCART1	12.43
2,557	638285.93	4268151.35	UCART1	12.43
2,558	638325.93	4268151.35	UCART1	12.26
2,559	638365.93	4268151.35	UCART1	12.19
2,560	638405.93	4268151.35	UCART1	12.31
2,561	638645.93	4268151.35	UCART1	11.03
2,562	638685.93	4268151.35	UCART1	10.49
2,563	638925.93	4268151.35	UCART1	12.72
2,564	638965.93	4268151.35	UCART1	13.13
2,565	639005.93	4268151.35	UCART1	13.57
2,566	638085.93	4268191.35	UCART1	12.03
2,567	638125.93	4268191.35	UCART1	12.03
2,568	638165.93	4268191.35	UCART1	12.03
2,569	638205.93	4268191.35	UCART1	12.15
2,570	638245.93	4268191.35	UCART1	12.19
2,571	638285.93	4268191.35	UCART1	12.13
2,572	638325.93	4268191.35	UCART1	12.03
2,573	638365.93	4268191.35	UCART1	12.19
2,574	638405.93	4268191.35	UCART1	12.25
2,575	638645.93	4268191.35	UCART1	11.03
2,576	638685.93	4268191.35	UCART1	10.67

2,577	638725.93	4268191.35	UCART1	11.34
2,578	638765.93	4268191.35	UCART1	12.25
2,579	638805.93	4268191.35	UCART1	12.33
2,580	638845.93	4268191.35	UCART1	12.49
2,581	638885.93	4268191.35	UCART1	12.40
2,582	638925.93	4268191.35	UCART1	12.60
2,583	638965.93	4268191.35	UCART1	12.98
2,584	639005.93	4268191.35	UCART1	13.62
2,585	638085.93	4268231.35	UCART1	11.35
2,586	638125.93	4268231.35	UCART1	11.35
2,587	638165.93	4268231.35	UCART1	11.46
2,588	638205.93	4268231.35	UCART1	11.65
2,589	638245.93	4268231.35	UCART1	11.66
2,590	638285.93	4268231.35	UCART1	11.64
2,591	638325.93	4268231.35	UCART1	11.82
2,592	638645.93	4268231.35	UCART1	10.93
2,593	638685.93	4268231.35	UCART1	10.60
2,594	638725.93	4268231.35	UCART1	11.05
2,595	638765.93	4268231.35	UCART1	11.76
2,596	638805.93	4268231.35	UCART1	12.12
2,597	638845.93	4268231.35	UCART1	12.23
2,598	638885.93	4268231.35	UCART1	12.21
2,599	638925.93	4268231.35	UCART1	12.23
2,600	638965.93	4268231.35	UCART1	12.56
2,601	639005.93	4268231.35	UCART1	13.10
2,602	638125.93	4268271.35	UCART1	10.91
2,603	638165.93	4268271.35	UCART1	10.91
2,604	638205.93	4268271.35	UCART1	11.13
2,605	638245.93	4268271.35	UCART1	11.19
2,606	638285.93	4268271.35	UCART1	10.93
2,607	638685.93	4268271.35	UCART1	10.60
2,608	638725.93	4268271.35	UCART1	10.68
2,609	638765.93	4268271.35	UCART1	11.00
2,610	638805.93	4268271.35	UCART1	11.37
2,611	638845.93	4268271.35	UCART1	11.53
2,612	638885.93	4268271.35	UCART1	11.78
2,613	638925.93	4268271.35	UCART1	11.82
2,614	638965.93	4268271.35	UCART1	12.14

2,615	639005.93	4268271.35	UCART1	12.39
2,616	638725.93	4268311.35	UCART1	10.67
2,617	638765.93	4268311.35	UCART1	10.67
2,618	638805.93	4268311.35	UCART1	10.77
2,619	638845.93	4268311.35	UCART1	10.95
2,620	638885.93	4268311.35	UCART1	11.17
2,621	638925.93	4268311.35	UCART1	11.37
2,622	638965.93	4268311.35	UCART1	11.72
2,623	639005.93	4268311.35	UCART1	11.84
2,624	638765.93	4268351.35	UCART1	10.67
2,625	638805.93	4268351.35	UCART1	10.67
2,626	638845.93	4268351.35	UCART1	10.67
2,627	638885.93	4268351.35	UCART1	10.70
2,628	638925.93	4268351.35	UCART1	10.93
2,629	638965.93	4268351.35	UCART1	11.31
2,630	639005.93	4268351.35	UCART1	11.44
2,631	638805.93	4268391.35	UCART1	10.67
2,632	638845.93	4268391.35	UCART1	10.67
2,633	638885.93	4268391.35	UCART1	10.67
2,634	638925.93	4268391.35	UCART1	10.67
2,635	638965.93	4268391.35	UCART1	10.91
2,636	639005.93	4268391.35	UCART1	11.03
2,637	638845.93	4268431.35	UCART1	10.67
2,638	638885.93	4268431.35	UCART1	10.67
2,639	638925.93	4268431.35	UCART1	10.67
2,640	638965.93	4268431.35	UCART1	10.67
2,641	639005.93	4268431.35	UCART1	10.72
2,642	638845.93	4268471.35	UCART1	10.67
2,643	638885.93	4268471.35	UCART1	10.67
2,644	638925.93	4268471.35	UCART1	10.67
2,645	638965.93	4268471.35	UCART1	10.67
2,646	639005.93	4268471.35	UCART1	10.67
2,647	638085.93	4268511.35	UCART1	10.36
2,648	638125.93	4268511.35	UCART1	10.36
2,649	638165.93	4268511.35	UCART1	10.36
2,650	638205.93	4268511.35	UCART1	10.36
2,651	638245.93	4268511.35	UCART1	10.61
2,652	638285.93	4268511.35	UCART1	10.67

2,653	638325.93	4268511.35	UCART1	10.67
2,654	638925.93	4268511.35	UCART1	10.69
2,655	638965.93	4268511.35	UCART1	10.67
2,656	639005.93	4268511.35	UCART1	10.73
2,657	638085.93	4268551.35	UCART1	10.36
2,658	638125.93	4268551.35	UCART1	10.36
2,659	638165.93	4268551.35	UCART1	10.36
2,660	638205.93	4268551.35	UCART1	10.36
2,661	638245.93	4268551.35	UCART1	10.37
2,662	638285.93	4268551.35	UCART1	10.50
2,663	638325.93	4268551.35	UCART1	10.50
2,664	638365.93	4268551.35	UCART1	10.51
2,665	638405.93	4268551.35	UCART1	10.67
2,666	638085.93	4268591.35	UCART1	10.36
2,667	638125.93	4268591.35	UCART1	10.36
2,668	638165.93	4268591.35	UCART1	10.36
2,669	638205.93	4268591.35	UCART1	10.36
2,670	638245.93	4268591.35	UCART1	10.36
2,671	638285.93	4268591.35	UCART1	10.36
2,672	638325.93	4268591.35	UCART1	10.36
2,673	638365.93	4268591.35	UCART1	10.38
2,674	638405.93	4268591.35	UCART1	10.67
2,675	638085.93	4268631.35	UCART1	10.06
2,676	638125.93	4268631.35	UCART1	10.06
2,677	638165.93	4268631.35	UCART1	10.06
2,678	638205.93	4268631.35	UCART1	10.06
2,679	638245.93	4268631.35	UCART1	10.07
2,680	638285.93	4268631.35	UCART1	10.30
2,681	638325.93	4268631.35	UCART1	10.35
2,682	638365.93	4268631.35	UCART1	10.36
2,683	638405.93	4268631.35	UCART1	10.46
2,684	638445.93	4268631.35	UCART1	10.65
2,685	638765.93	4268631.35	UCART1	11.28
2,686	638805.93	4268631.35	UCART1	11.33
2,687	638845.93	4268631.35	UCART1	11.34
2,688	638885.93	4268631.35	UCART1	11.34
2,689	638925.93	4268631.35	UCART1	11.52
2,690	638965.93	4268631.35	UCART1	11.57

2,691	639005.93	4268631.35	UCART1	11.34
2,692	638085.93	4268671.35	UCART1	10.06
2,693	638125.93	4268671.35	UCART1	10.06
2,694	638165.93	4268671.35	UCART1	10.06
2,695	638205.93	4268671.35	UCART1	10.06
2,696	638245.93	4268671.35	UCART1	10.06
2,697	638285.93	4268671.35	UCART1	10.06
2,698	638325.93	4268671.35	UCART1	10.16
2,699	638365.93	4268671.35	UCART1	10.36
2,700	638405.93	4268671.35	UCART1	10.36
2,701	638445.93	4268671.35	UCART1	10.46
2,702	638645.93	4268671.35	UCART1	11.28
2,703	638685.93	4268671.35	UCART1	11.40
2,704	638725.93	4268671.35	UCART1	11.44
2,705	638765.93	4268671.35	UCART1	11.44
2,706	638805.93	4268671.35	UCART1	11.55
2,707	638845.93	4268671.35	UCART1	11.59
2,708	638885.93	4268671.35	UCART1	11.75
2,709	638925.93	4268671.35	UCART1	11.75
2,710	638965.93	4268671.35	UCART1	11.74
2,711	639005.93	4268671.35	UCART1	11.58
2,712	638085.93	4268711.35	UCART1	10.06
2,713	638125.93	4268711.35	UCART1	10.06
2,714	638165.93	4268711.35	UCART1	9.95
2,715	638205.93	4268711.35	UCART1	9.79
2,716	638245.93	4268711.35	UCART1	9.79
2,717	638285.93	4268711.35	UCART1	9.90
2,718	638325.93	4268711.35	UCART1	10.06
2,719	638365.93	4268711.35	UCART1	10.09
2,720	638405.93	4268711.35	UCART1	10.20
2,721	638445.93	4268711.35	UCART1	10.36
2,722	638645.93	4268711.35	UCART1	11.38
2,723	638685.93	4268711.35	UCART1	11.57
2,724	638725.93	4268711.35	UCART1	11.58
2,725	638765.93	4268711.35	UCART1	11.69
2,726	638805.93	4268711.35	UCART1	11.85
2,727	638845.93	4268711.35	UCART1	11.85
2,728	638885.93	4268711.35	UCART1	11.89

2,729	638925.93	4268711.35	UCART1	11.89
2,730	638965.93	4268711.35	UCART1	11.88
2,731	639005.93	4268711.35	UCART1	11.85
2,732	638085.93	4268751.35	UCART1	9.75
2,733	638125.93	4268751.35	UCART1	9.75
2,734	638165.93	4268751.35	UCART1	9.75
2,735	638205.93	4268751.35	UCART1	9.75
2,736	638245.93	4268751.35	UCART1	9.75
2,737	638285.93	4268751.35	UCART1	9.75
2,738	638325.93	4268751.35	UCART1	9.75
2,739	638365.93	4268751.35	UCART1	9.99
2,740	638405.93	4268751.35	UCART1	10.02
2,741	638445.93	4268751.35	UCART1	10.23
2,742	638645.93	4268751.35	UCART1	11.65
2,743	638685.93	4268751.35	UCART1	11.82
2,744	638725.93	4268751.35	UCART1	11.95
2,745	638765.93	4268751.35	UCART1	11.95
2,746	638805.93	4268751.35	UCART1	11.95
2,747	638845.93	4268751.35	UCART1	11.97
2,748	638885.93	4268751.35	UCART1	12.19
2,749	638925.93	4268751.35	UCART1	12.19
2,750	638965.93	4268751.35	UCART1	12.19
2,751	639005.93	4268751.35	UCART1	12.10
2,752	638085.93	4268791.35	UCART1	9.75
2,753	638125.93	4268791.35	UCART1	9.75
2,754	638165.93	4268791.35	UCART1	9.75
2,755	638205.93	4268791.35	UCART1	9.75
2,756	638245.93	4268791.35	UCART1	9.75
2,757	638285.93	4268791.35	UCART1	9.75
2,758	638325.93	4268791.35	UCART1	9.75
2,759	638365.93	4268791.35	UCART1	9.75
2,760	638405.93	4268791.35	UCART1	9.81
2,761	638445.93	4268791.35	UCART1	10.01
2,762	638685.93	4268791.35	UCART1	12.05
2,763	638725.93	4268791.35	UCART1	12.19
2,764	638765.93	4268791.35	UCART1	12.19
2,765	638805.93	4268791.35	UCART1	12.19
2,766	638845.93	4268791.35	UCART1	12.03

2,767	638885.93	4268791.35	UCART1	12.03
2,768	638925.93	4268791.35	UCART1	12.03
2,769	638965.93	4268791.35	UCART1	12.03
2,770	639005.93	4268791.35	UCART1	12.03
2,771	638085.93	4268831.35	UCART1	9.49
2,772	638125.93	4268831.35	UCART1	9.49
2,773	638165.93	4268831.35	UCART1	9.49
2,774	638205.93	4268831.35	UCART1	9.49
2,775	638245.93	4268831.35	UCART1	9.49
2,776	638285.93	4268831.35	UCART1	9.49
2,777	638325.93	4268831.35	UCART1	9.49
2,778	638365.93	4268831.35	UCART1	9.75
2,779	638405.93	4268831.35	UCART1	9.75
2,780	638445.93	4268831.35	UCART1	9.78
2,781	638725.93	4268831.35	UCART1	11.92
2,782	638765.93	4268831.35	UCART1	11.92
2,783	638805.93	4268831.35	UCART1	11.92
2,784	638845.93	4268831.35	UCART1	11.62
2,785	638885.93	4268831.35	UCART1	11.62
2,786	638925.93	4268831.35	UCART1	11.62
2,787	638965.93	4268831.35	UCART1	11.62
2,788	639005.93	4268831.35	UCART1	11.62
2,789	638085.93	4268871.35	UCART1	9.40
2,790	638125.93	4268871.35	UCART1	9.38
2,791	638165.93	4268871.35	UCART1	9.38
2,792	638205.93	4268871.35	UCART1	9.38
2,793	638245.93	4268871.35	UCART1	9.38
2,794	638285.93	4268871.35	UCART1	9.38
2,795	638325.93	4268871.35	UCART1	9.38
2,796	638365.93	4268871.35	UCART1	9.45
2,797	638405.93	4268871.35	UCART1	9.45
2,798	638445.93	4268871.35	UCART1	9.45
2,799	638485.93	4268871.35	UCART1	9.73
2,800	638725.93	4268871.35	UCART1	11.51
2,801	638765.93	4268871.35	UCART1	11.45
2,802	638805.93	4268871.35	UCART1	11.28
2,803	638845.93	4268871.35	UCART1	11.21
2,804	638885.93	4268871.35	UCART1	11.21

2,805	638925.93	4268871.35	UCART1	11.21
2,806	638965.93	4268871.35	UCART1	11.21
2,807	639005.93	4268871.35	UCART1	11.24
2,808	638085.93	4268911.35	UCART1	9.18
2,809	638125.93	4268911.35	UCART1	9.14
2,810	638165.93	4268911.35	UCART1	9.14
2,811	638205.93	4268911.35	UCART1	9.14
2,812	638245.93	4268911.35	UCART1	9.14
2,813	638285.93	4268911.35	UCART1	9.14
2,814	638325.93	4268911.35	UCART1	9.14
2,815	638365.93	4268911.35	UCART1	9.28
2,816	638405.93	4268911.35	UCART1	9.28
2,817	638445.93	4268911.35	UCART1	9.28
2,818	638485.93	4268911.35	UCART1	9.32
2,819	638525.93	4268911.35	UCART1	10.13
2,820	638565.93	4268911.35	UCART1	11.39
2,821	638645.93	4268911.35	UCART1	11.43
2,822	638685.93	4268911.35	UCART1	11.03
2,823	638725.93	4268911.35	UCART1	10.93
2,824	638765.93	4268911.35	UCART1	10.81
2,825	638805.93	4268911.35	UCART1	10.81
2,826	638845.93	4268911.35	UCART1	10.81
2,827	638885.93	4268911.35	UCART1	10.81
2,828	638925.93	4268911.35	UCART1	10.81
2,829	638965.93	4268911.35	UCART1	10.82
2,830	639005.93	4268911.35	UCART1	11.03
2,831	638645.93	4268951.35	UCART1	10.19
2,832	638685.93	4268951.35	UCART1	10.14
2,833	638725.93	4268951.35	UCART1	10.13
2,834	638765.93	4268951.35	UCART1	10.24
2,835	638805.93	4268951.35	UCART1	10.40
2,836	638845.93	4268951.35	UCART1	10.40
2,837	638885.93	4268951.35	UCART1	10.40
2,838	638925.93	4268951.35	UCART1	10.40
2,839	638965.93	4268951.35	UCART1	10.42
2,840	639005.93	4268951.35	UCART1	10.70
2,841	638845.93	4268991.35	UCART1	9.99
2,842	638885.93	4268991.35	UCART1	9.99

2,843	638925.93	4268991.35	UCART1	9.99
2,844	638965.93	4268991.35	UCART1	10.07
2,845	639005.93	4268991.35	UCART1	10.30
2,846	638165.93	4269271.35	UCART1	7.92
2,847	638205.93	4269271.35	UCART1	7.92
2,848	638245.93	4269271.35	UCART1	7.92
2,849	638285.93	4269271.35	UCART1	7.92
2,850	638325.93	4269271.35	UCART1	7.92
2,851	638365.93	4269271.35	UCART1	7.92
2,852	637965.93	4269311.35	UCART1	7.92
2,853	638005.93	4269311.35	UCART1	7.92
2,854	638045.93	4269311.35	UCART1	7.92
2,855	638085.93	4269311.35	UCART1	8.12
2,856	638125.93	4269311.35	UCART1	8.19
2,857	638165.93	4269311.35	UCART1	8.19
2,858	638205.93	4269311.35	UCART1	8.19
2,859	638245.93	4269311.35	UCART1	8.18
2,860	638285.93	4269311.35	UCART1	7.92
2,861	638325.93	4269311.35	UCART1	7.92
2,862	638365.93	4269311.35	UCART1	7.92
2,863	638405.93	4269311.35	UCART1	7.92
2,864	638445.93	4269311.35	UCART1	7.92
2,865	638485.93	4269311.35	UCART1	7.92
2,866	638525.93	4269311.35	UCART1	7.89
2,867	637925.93	4269351.35	UCART1	7.95
2,868	637965.93	4269351.35	UCART1	7.99
2,869	638005.93	4269351.35	UCART1	8.23
2,870	638125.93	4269351.35	UCART1	8.23
2,871	638165.93	4269351.35	UCART1	8.23
2,872	638205.93	4269351.35	UCART1	8.23
2,873	638245.93	4269351.35	UCART1	8.23
2,874	638285.93	4269351.35	UCART1	8.23
2,875	638325.93	4269351.35	UCART1	8.23
2,876	638485.93	4269351.35	UCART1	7.99
2,877	638525.93	4269351.35	UCART1	7.99
2,878	638565.93	4269351.35	UCART1	7.99
2,879	637885.93	4269391.35	UCART1	7.94
2,880	637925.93	4269391.35	UCART1	8.15

2,881	638005.93	4269391.35	UCART1	8.23
2,882	638045.93	4269391.35	UCART1	8.23
2,883	638085.93	4269391.35	UCART1	8.23
2,884	638125.93	4269391.35	UCART1	8.23
2,885	638165.93	4269391.35	UCART1	8.30
2,886	638205.93	4269391.35	UCART1	8.40
2,887	638245.93	4269391.35	UCART1	8.23
2,888	638285.93	4269391.35	UCART1	8.23
2,889	638325.93	4269391.35	UCART1	8.23
2,890	638365.93	4269391.35	UCART1	8.23
2,891	638405.93	4269391.35	UCART1	8.23
2,892	638445.93	4269391.35	UCART1	8.23
2,893	638485.93	4269391.35	UCART1	8.23
2,894	638725.93	4269391.35	UCART1	8.23
2,895	638765.93	4269391.35	UCART1	8.17
2,896	638805.93	4269391.35	UCART1	8.09
2,897	637845.93	4269431.35	UCART1	8.12
2,898	637885.93	4269431.35	UCART1	8.20
2,899	637965.93	4269431.35	UCART1	8.23
2,900	638005.93	4269431.35	UCART1	8.23
2,901	638045.93	4269431.35	UCART1	8.34
2,902	638085.93	4269431.35	UCART1	8.50
2,903	638125.93	4269431.35	UCART1	8.50
2,904	638165.93	4269431.35	UCART1	8.51
2,905	638205.93	4269431.35	UCART1	8.53
2,906	638245.93	4269431.35	UCART1	8.50
2,907	638285.93	4269431.35	UCART1	8.50
2,908	638325.93	4269431.35	UCART1	8.30
2,909	638365.93	4269431.35	UCART1	8.23
2,910	638405.93	4269431.35	UCART1	8.23
2,911	638445.93	4269431.35	UCART1	8.23
2,912	638485.93	4269431.35	UCART1	8.23
2,913	638525.93	4269431.35	UCART1	8.23
2,914	638565.93	4269431.35	UCART1	8.23
2,915	638765.93	4269431.35	UCART1	8.23
2,916	638805.93	4269431.35	UCART1	8.23
2,917	638845.93	4269431.35	UCART1	8.23
2,918	638885.93	4269431.35	UCART1	8.23

2,919	638925.93	4269431.35	UCART1	8.23
2,920	637805.93	4269471.35	UCART1	8.09
2,921	637885.93	4269471.35	UCART1	8.23
2,922	637925.93	4269471.35	UCART1	8.23
2,923	637965.93	4269471.35	UCART1	8.28
2,924	638005.93	4269471.35	UCART1	8.53
2,925	638045.93	4269471.35	UCART1	8.53
2,926	638085.93	4269471.35	UCART1	8.53
2,927	638125.93	4269471.35	UCART1	8.53
2,928	638165.93	4269471.35	UCART1	8.53
2,929	638205.93	4269471.35	UCART1	8.53
2,930	638245.93	4269471.35	UCART1	8.53
2,931	638285.93	4269471.35	UCART1	8.53
2,932	638325.93	4269471.35	UCART1	8.53
2,933	638365.93	4269471.35	UCART1	8.53
2,934	638405.93	4269471.35	UCART1	8.53
2,935	638445.93	4269471.35	UCART1	8.53
2,936	638485.93	4269471.35	UCART1	8.53
2,937	638525.93	4269471.35	UCART1	8.53
2,938	638565.93	4269471.35	UCART1	8.53
2,939	638725.93	4269471.35	UCART1	8.53
2,940	638845.93	4269471.35	UCART1	8.53
2,941	638885.93	4269471.35	UCART1	8.44
2,942	638925.93	4269471.35	UCART1	8.29
2,943	638965.93	4269471.35	UCART1	8.23
2,944	639005.93	4269471.35	UCART1	8.23
2,945	637765.93	4269511.35	UCART1	8.23
2,946	637805.93	4269511.35	UCART1	8.23
2,947	637845.93	4269511.35	UCART1	8.23
2,948	637885.93	4269511.35	UCART1	8.24
2,949	637925.93	4269511.35	UCART1	8.40
2,950	637965.93	4269511.35	UCART1	8.50
2,951	638005.93	4269511.35	UCART1	8.53
2,952	638045.93	4269511.35	UCART1	8.53
2,953	638085.93	4269511.35	UCART1	8.66
2,954	638125.93	4269511.35	UCART1	8.70
2,955	638165.93	4269511.35	UCART1	8.70
2,956	638205.93	4269511.35	UCART1	8.70

2,957	638245.93	4269511.35	UCART1	8.69
2,958	638285.93	4269511.35	UCART1	8.53
2,959	638325.93	4269511.35	UCART1	8.53
2,960	638365.93	4269511.35	UCART1	8.53
2,961	638405.93	4269511.35	UCART1	8.53
2,962	638445.93	4269511.35	UCART1	8.53
2,963	638485.93	4269511.35	UCART1	8.53
2,964	638525.93	4269511.35	UCART1	8.53
2,965	638565.93	4269511.35	UCART1	8.53
2,966	638725.93	4269511.35	UCART1	8.53
2,967	638765.93	4269511.35	UCART1	8.53
2,968	638805.93	4269511.35	UCART1	8.53
2,969	638845.93	4269511.35	UCART1	8.53
2,970	638885.93	4269511.35	UCART1	8.53
2,971	638925.93	4269511.35	UCART1	8.53
2,972	638965.93	4269511.35	UCART1	8.40
2,973	639005.93	4269511.35	UCART1	8.40
2,974	637765.93	4269551.35	UCART1	8.23
2,975	637805.93	4269551.35	UCART1	8.23
2,976	637845.93	4269551.35	UCART1	8.43
2,977	637885.93	4269551.35	UCART1	8.50
2,978	637925.93	4269551.35	UCART1	8.53
2,979	637965.93	4269551.35	UCART1	8.53
2,980	638005.93	4269551.35	UCART1	8.80
2,981	638045.93	4269551.35	UCART1	8.80
2,982	638085.93	4269551.35	UCART1	8.83
2,983	638125.93	4269551.35	UCART1	8.84
2,984	638165.93	4269551.35	UCART1	8.84
2,985	638205.93	4269551.35	UCART1	8.84
2,986	638245.93	4269551.35	UCART1	8.84
2,987	638285.93	4269551.35	UCART1	8.80
2,988	638325.93	4269551.35	UCART1	8.80
2,989	638365.93	4269551.35	UCART1	8.80
2,990	638405.93	4269551.35	UCART1	8.80
2,991	638445.93	4269551.35	UCART1	8.80
2,992	638485.93	4269551.35	UCART1	8.80
2,993	638525.93	4269551.35	UCART1	8.80
2,994	638565.93	4269551.35	UCART1	8.80

2,995	638725.93	4269551.35	UCART1	8.80
2,996	638765.93	4269551.35	UCART1	8.80
2,997	638805.93	4269551.35	UCART1	8.80
2,998	638885.93	4269551.35	UCART1	8.80
2,999	638925.93	4269551.35	UCART1	8.80
3,000	638965.93	4269551.35	UCART1	8.53
3,001	639005.93	4269551.35	UCART1	8.53
3,002	637725.93	4269591.35	UCART1	8.28
3,003	637805.93	4269591.35	UCART1	8.53
3,004	637845.93	4269591.35	UCART1	8.53
3,005	637885.93	4269591.35	UCART1	8.60
3,006	637925.93	4269591.35	UCART1	8.70
3,007	638005.93	4269591.35	UCART1	8.84
3,008	638045.93	4269591.35	UCART1	8.90
3,009	638085.93	4269591.35	UCART1	8.90
3,010	638125.93	4269591.35	UCART1	8.90
3,011	638165.93	4269591.35	UCART1	8.90
3,012	638205.93	4269591.35	UCART1	8.90
3,013	638245.93	4269591.35	UCART1	8.90
3,014	638285.93	4269591.35	UCART1	8.88
3,015	638325.93	4269591.35	UCART1	8.84
3,016	638365.93	4269591.35	UCART1	8.84
3,017	638405.93	4269591.35	UCART1	8.84
3,018	638485.93	4269591.35	UCART1	8.90
3,019	638565.93	4269591.35	UCART1	8.90
3,020	638725.93	4269591.35	UCART1	8.90
3,021	637964.89	4269591.59	UCART1	8.84
3,022	638645.38	4269591.74	UCART1	8.91
3,023	638685.38	4269591.74	UCART1	8.91
3,024	638765.38	4269591.74	UCART1	8.91
3,025	638805.38	4269591.74	UCART1	8.91
3,026	638885.38	4269591.74	UCART1	8.91
3,027	638925.38	4269591.74	UCART1	8.91
3,028	638965.38	4269591.74	UCART1	8.91
3,029	639005.38	4269591.74	UCART1	8.91
3,030	638645.38	4269631.74	UCART1	9.14
3,031	638685.38	4269631.74	UCART1	9.14
3,032	638725.38	4269631.74	UCART1	9.14

3,033	638765.38	4269631.74	UCART1	9.14
3,034	638805.38	4269631.74	UCART1	9.14
3,035	638845.38	4269631.74	UCART1	9.14
3,036	638885.38	4269631.74	UCART1	9.14
3,037	638925.38	4269631.74	UCART1	9.14
3,038	638965.38	4269631.74	UCART1	9.14
3,039	639005.38	4269631.74	UCART1	9.21
3,040	638645.38	4269671.74	UCART1	9.14
3,041	638685.38	4269671.74	UCART1	9.14
3,042	638725.38	4269671.74	UCART1	9.14
3,043	638765.38	4269671.74	UCART1	9.14
3,044	638805.38	4269671.74	UCART1	9.14
3,045	638845.38	4269671.74	UCART1	9.14
3,046	638925.38	4269671.74	UCART1	9.14
3,047	638965.38	4269671.74	UCART1	9.42
3,048	639005.38	4269671.74	UCART1	9.43
3,049	638645.38	4269711.74	UCART1	9.45
3,050	638685.38	4269711.74	UCART1	9.45
3,051	638725.38	4269711.74	UCART1	9.45
3,052	638765.38	4269711.74	UCART1	9.45
3,053	638805.38	4269711.74	UCART1	9.45
3,054	638845.38	4269711.74	UCART1	9.45
3,055	638925.38	4269711.74	UCART1	9.45
3,056	638965.38	4269711.74	UCART1	9.53
3,057	639005.38	4269711.74	UCART1	9.78
3,058	638645.38	4269751.74	UCART1	9.45
3,059	638685.38	4269751.74	UCART1	9.45
3,060	638725.38	4269751.74	UCART1	9.45
3,061	638765.38	4269751.74	UCART1	9.45
3,062	638805.38	4269751.74	UCART1	9.45
3,063	638845.38	4269751.74	UCART1	9.45
3,064	638925.38	4269751.74	UCART1	9.62
3,065	638965.38	4269751.74	UCART1	9.76
3,066	639005.38	4269751.74	UCART1	9.98
3,067	638645.38	4269791.74	UCART1	9.45
3,068	638685.38	4269791.74	UCART1	9.45
3,069	638725.38	4269791.74	UCART1	9.45
3,070	638765.38	4269791.74	UCART1	9.45

3,071	638805.38	4269791.74	UCART1	9.64
3,072	638845.38	4269791.74	UCART1	9.72
3,073	638885.38	4269791.74	UCART1	9.73
3,074	638925.38	4269791.74	UCART1	9.75
3,075	638965.38	4269791.74	UCART1	10.03
3,076	639005.38	4269791.74	UCART1	10.16
3,077	638645.38	4269831.74	UCART1	9.61
3,078	638685.38	4269831.74	UCART1	9.75
3,079	638725.38	4269831.74	UCART1	9.75
3,080	638765.38	4269831.74	UCART1	9.75
3,081	638805.38	4269831.74	UCART1	9.75
3,082	638845.38	4269831.74	UCART1	9.82
3,083	638885.38	4269831.74	UCART1	9.91
3,084	638965.38	4269831.74	UCART1	10.14
3,085	639005.38	4269831.74	UCART1	10.36
3,086	638645.38	4269871.74	UCART1	9.75
3,087	638685.38	4269871.74	UCART1	9.75
3,088	638725.38	4269871.74	UCART1	9.76
3,089	638765.38	4269871.74	UCART1	9.92
3,090	638805.38	4269871.74	UCART1	9.92
3,091	638845.38	4269871.74	UCART1	10.06
3,092	638885.38	4269871.74	UCART1	10.12
3,093	638965.38	4269871.74	UCART1	10.36
3,094	639005.38	4269871.74	UCART1	10.36
3,095	638645.38	4269911.74	UCART1	10.03
3,096	638685.38	4269911.74	UCART1	10.03
3,097	638725.38	4269911.74	UCART1	10.03
3,098	638765.38	4269911.74	UCART1	10.06
3,099	638805.38	4269911.74	UCART1	10.06
3,100	638845.38	4269911.74	UCART1	10.33
3,101	638885.38	4269911.74	UCART1	10.34
3,102	638965.38	4269911.74	UCART1	10.36
3,103	639005.38	4269911.74	UCART1	10.36
3,104	638645.38	4269951.74	UCART1	10.06
3,105	638685.38	4269951.74	UCART1	10.06
3,106	638725.38	4269951.74	UCART1	10.13
3,107	638765.38	4269951.74	UCART1	10.22
3,108	638805.38	4269951.74	UCART1	10.36

3,109	638845.38	4269951.74	UCART1	10.43
3,110	638885.38	4269951.74	UCART1	10.52
3,111	638925.38	4269951.74	UCART1	10.67
3,112	639005.38	4269951.74	UCART1	10.60
3,113	638645.38	4269991.74	UCART1	10.12
3,114	638685.38	4269991.74	UCART1	10.23
3,115	638725.38	4269991.74	UCART1	10.36
3,116	638765.38	4269991.74	UCART1	10.36
3,117	638805.38	4269991.74	UCART1	10.49
3,118	638845.38	4269991.74	UCART1	10.67
3,119	638885.38	4269991.74	UCART1	10.60
3,120	638925.38	4269991.74	UCART1	10.50
3,121	638965.38	4269991.74	UCART1	10.49
3,122	638645.38	4270031.74	UCART1	10.34
3,123	638685.38	4270031.74	UCART1	10.36
3,124	638725.38	4270031.74	UCART1	10.36
3,125	638765.38	4270031.74	UCART1	10.36
3,126	638805.38	4270031.74	UCART1	10.58
3,127	638845.38	4270031.74	UCART1	10.66
3,128	638885.38	4270031.74	UCART1	10.38
3,129	638925.38	4270031.74	UCART1	10.36
3,130	638965.38	4270031.74	UCART1	10.38
3,131	639005.38	4270031.74	UCART1	10.64
3,132	638645.38	4270071.74	UCART1	10.36
3,133	638685.38	4270071.74	UCART1	10.36
3,134	638725.38	4270071.74	UCART1	10.37
3,135	638765.38	4270071.74	UCART1	10.52
3,136	638805.38	4270071.74	UCART1	10.67
3,137	638845.38	4270071.74	UCART1	10.67
3,138	638885.38	4270071.74	UCART1	10.67
3,139	638925.38	4270071.74	UCART1	10.67
3,140	638965.38	4270071.74	UCART1	10.67
3,141	639005.38	4270071.74	UCART1	10.67
3,142	638645.38	4270111.74	UCART1	10.53
3,143	638685.38	4270111.74	UCART1	10.53
3,144	638725.38	4270111.74	UCART1	10.54
3,145	638765.38	4270111.74	UCART1	10.67
3,146	638805.38	4270111.74	UCART1	10.67

3,147	638845.38	4270111.74	UCART1	10.67
3,148	638885.38	4270111.74	UCART1	10.67
3,149	638925.38	4270111.74	UCART1	10.67
3,150	638965.38	4270111.74	UCART1	10.67
3,151	639005.38	4270111.74	UCART1	10.67
3,152	638645.38	4270151.74	UCART1	10.67
3,153	638685.38	4270151.74	UCART1	10.67
3,154	638725.38	4270151.74	UCART1	10.67
3,155	638765.38	4270151.74	UCART1	10.67
3,156	638805.38	4270151.74	UCART1	10.67
3,157	638845.38	4270151.74	UCART1	10.67
3,158	638885.38	4270151.74	UCART1	10.67
3,159	638925.38	4270151.74	UCART1	10.67
3,160	638965.38	4270151.74	UCART1	10.67
3,161	639005.38	4270151.74	UCART1	10.67
3,162	638645.38	4270191.74	UCART1	10.67
3,163	638685.38	4270191.74	UCART1	10.67
3,164	638725.38	4270191.74	UCART1	10.67
3,165	638765.38	4270191.74	UCART1	10.67
3,166	638805.38	4270191.74	UCART1	10.67
3,167	638845.38	4270191.74	UCART1	10.67
3,168	638965.38	4270191.74	UCART1	10.74
3,169	639005.38	4270191.74	UCART1	10.74
3,170	638845.38	4270231.74	UCART1	10.84
3,171	638885.38	4270231.74	UCART1	10.84
3,172	638925.38	4270231.74	UCART1	10.84
3,173	638965.38	4270231.74	UCART1	10.98
3,174	639005.38	4270231.74	UCART1	11.14
3,175	638645.38	4270271.74	UCART1	10.67
3,176	638725.38	4270271.74	UCART1	10.68
3,177	638765.38	4270271.74	UCART1	10.94
3,178	638805.38	4270271.74	UCART1	10.94
3,179	638845.38	4270271.74	UCART1	10.99
3,180	639005.38	4270271.74	UCART1	11.55
3,181	638645.38	4270311.74	UCART1	10.67
3,182	638725.38	4270311.74	UCART1	10.97
3,183	638765.38	4270311.74	UCART1	10.97
3,184	638925.38	4270311.74	UCART1	11.63

3,185	638965.38	4270311.74	UCART1	11.66
3,186	639005.38	4270311.74	UCART1	11.91
3,187	638645.38	4270351.74	UCART1	10.84
3,188	638685.38	4270351.74	UCART1	10.93
3,189	638725.38	4270351.74	UCART1	10.97
3,190	638765.38	4270351.74	UCART1	11.04
3,191	638805.38	4270351.74	UCART1	11.24
3,192	638925.38	4270351.74	UCART1	11.85
3,193	638965.38	4270351.74	UCART1	12.06
3,194	639005.38	4270351.74	UCART1	12.11
3,195	638645.38	4270391.74	UCART1	10.97
3,196	638725.38	4270391.74	UCART1	10.97
3,197	638765.38	4270391.74	UCART1	11.09
3,198	638805.38	4270391.74	UCART1	11.28
3,199	638845.38	4270391.74	UCART1	11.60
3,200	638885.38	4270391.74	UCART1	11.97
3,201	638925.38	4270391.74	UCART1	12.16
3,202	638965.38	4270391.74	UCART1	12.19
3,203	639005.38	4270391.74	UCART1	12.19
3,204	638645.38	4270431.74	UCART1	10.97
3,205	638725.38	4270431.74	UCART1	10.99
3,206	638765.38	4270431.74	UCART1	11.28
3,207	638805.38	4270431.74	UCART1	11.50
3,208	638845.38	4270431.74	UCART1	11.60
3,209	638885.38	4270431.74	UCART1	12.05
3,210	638925.38	4270431.74	UCART1	12.19
3,211	638965.38	4270431.74	UCART1	12.19
3,212	639005.38	4270431.74	UCART1	12.19
3,213	638645.38	4270471.74	UCART1	10.97
3,214	638725.38	4270471.74	UCART1	11.15
3,215	638765.38	4270471.74	UCART1	11.28
3,216	638805.38	4270471.74	UCART1	11.50
3,217	638845.38	4270471.74	UCART1	11.77
3,218	638885.38	4270471.74	UCART1	12.09
3,219	638925.38	4270471.74	UCART1	12.19
3,220	638965.38	4270471.74	UCART1	12.19
3,221	639005.38	4270471.74	UCART1	12.19
3,222	638645.38	4270511.74	UCART1	10.97

3,223	638725.38	4270511.74	UCART1	11.28
3,224	638765.38	4270511.74	UCART1	11.28
3,225	638805.38	4270511.74	UCART1	11.50
3,226	638845.38	4270511.74	UCART1	11.63
3,227	638885.38	4270511.74	UCART1	11.90
3,228	638925.38	4270511.74	UCART1	11.92
3,229	638965.38	4270511.74	UCART1	11.93
3,230	639005.38	4270511.74	UCART1	12.19
3,231	638645.38	4270551.74	UCART1	10.97
3,232	638725.38	4270551.74	UCART1	11.28
3,233	638765.38	4270551.74	UCART1	11.28
3,234	638805.38	4270551.74	UCART1	11.45
3,235	638845.38	4270551.74	UCART1	11.58
3,236	638885.38	4270551.74	UCART1	11.67
3,237	638925.38	4270551.74	UCART1	11.87
3,238	638965.38	4270551.74	UCART1	11.90
3,239	639005.38	4270551.74	UCART1	12.19
3,240	638645.38	4270591.74	UCART1	10.97
3,241	638725.38	4270591.74	UCART1	11.11
3,242	638765.38	4270591.74	UCART1	11.17
3,243	638805.38	4270591.74	UCART1	11.28
3,244	638845.38	4270591.74	UCART1	11.42
3,245	638885.38	4270591.74	UCART1	11.58
3,246	638925.38	4270591.74	UCART1	11.80
3,247	638965.38	4270591.74	UCART1	11.90
3,248	639005.38	4270591.74	UCART1	12.19
3,249	638645.38	4270631.74	UCART1	10.80
3,250	638685.38	4270631.74	UCART1	10.97
3,251	638725.38	4270631.74	UCART1	10.97
3,252	638765.38	4270631.74	UCART1	10.99
3,253	638805.38	4270631.74	UCART1	11.00
3,254	638845.38	4270631.74	UCART1	11.28
3,255	638885.38	4270631.74	UCART1	11.41
3,256	638925.38	4270631.74	UCART1	11.61
3,257	638965.38	4270631.74	UCART1	11.89
3,258	639005.38	4270631.74	UCART1	12.02
3,259	638645.38	4270671.74	UCART1	10.67
3,260	638685.38	4270671.74	UCART1	10.67

3,261	638725.38	4270671.74	UCART1	10.67
3,262	638765.38	4270671.74	UCART1	10.67
3,263	638805.38	4270671.74	UCART1	10.89
3,264	638845.38	4270671.74	UCART1	11.21
3,265	638885.38	4270671.74	UCART1	11.37
3,266	638925.38	4270671.74	UCART1	11.56
3,267	638965.38	4270671.74	UCART1	11.58
3,268	639005.38	4270671.74	UCART1	11.58
3,269	638645.38	4270711.74	UCART1	10.67
3,270	638685.38	4270711.74	UCART1	10.67
3,271	638725.38	4270711.74	UCART1	10.67
3,272	638765.38	4270711.74	UCART1	10.67
3,273	638805.38	4270711.74	UCART1	10.89
3,274	638845.38	4270711.74	UCART1	10.99
3,275	638885.38	4270711.74	UCART1	11.28
3,276	638925.38	4270711.74	UCART1	11.37
3,277	638965.38	4270711.74	UCART1	11.41
3,278	639005.38	4270711.74	UCART1	11.41
3,279	638645.38	4270791.74	UCART1	10.62
3,280	638685.38	4270791.74	UCART1	10.67
3,281	638725.38	4270791.74	UCART1	10.67
3,282	638765.38	4270791.74	UCART1	10.67
3,283	638805.38	4270791.74	UCART1	10.84
3,284	638845.38	4270791.74	UCART1	10.90
3,285	638885.38	4270791.74	UCART1	10.93
3,286	638645.38	4270831.74	UCART1	10.59
3,287	638685.38	4270831.74	UCART1	10.67
3,288	638725.38	4270831.74	UCART1	10.67
3,289	638765.38	4270831.74	UCART1	10.67
3,290	638805.38	4270831.74	UCART1	10.67
3,291	638845.38	4270831.74	UCART1	10.67
3,292	638885.38	4270831.74	UCART1	10.78
3,293	638925.38	4270831.74	UCART1	10.97
3,294	638645.38	4270871.74	UCART1	10.67
3,295	638685.38	4270871.74	UCART1	10.67
3,296	638725.38	4270871.74	UCART1	10.67
3,297	638765.38	4270871.74	UCART1	10.67
3,298	638805.38	4270871.74	UCART1	10.47

3,299	638845.38	4270871.74	UCART1	10.41
3,300	638885.38	4270871.74	UCART1	10.68
3,301	638925.38	4270871.74	UCART1	10.89
3,302	638965.38	4270871.74	UCART1	10.97
3,303	638645.38	4270911.74	UCART1	10.62
3,304	638685.38	4270911.74	UCART1	10.67
3,305	638725.38	4270911.74	UCART1	10.60
3,306	638765.38	4270911.74	UCART1	10.60
3,307	638805.38	4270911.74	UCART1	10.38
3,308	638845.38	4270911.74	UCART1	10.30
3,309	638885.38	4270911.74	UCART1	10.45
3,310	638925.38	4270911.74	UCART1	10.65
3,311	638965.38	4270911.74	UCART1	10.67
3,312	639005.38	4270911.74	UCART1	10.54
3,313	638645.38	4270951.74	UCART1	10.41
3,314	638685.38	4270951.74	UCART1	10.50
3,315	638725.38	4270951.74	UCART1	10.52
3,316	638765.38	4270951.74	UCART1	10.19
3,317	638805.38	4270951.74	UCART1	10.10
3,318	638845.38	4270951.74	UCART1	9.89
3,319	638885.38	4270951.74	UCART1	10.02
3,320	638925.38	4270951.74	UCART1	10.12
3,321	638965.38	4270951.74	UCART1	9.97
3,322	639005.38	4270951.74	UCART1	9.52
3,323	638645.38	4270991.74	UCART1	9.92
3,324	638685.38	4270991.74	UCART1	10.09
3,325	638725.38	4270991.74	UCART1	9.85
3,326	638765.38	4270991.74	UCART1	9.79
3,327	638805.38	4270991.74	UCART1	9.59
3,328	638845.38	4270991.74	UCART1	9.48
3,329	638885.38	4270991.74	UCART1	9.48
3,330	638925.38	4270991.74	UCART1	9.29
3,331	638965.38	4270991.74	UCART1	8.91
3,332	639005.38	4270991.74	UCART1	9.24
3,333	638645.38	4271031.74	UCART1	9.50
3,334	638685.38	4271031.74	UCART1	9.52
3,335	638725.38	4271031.74	UCART1	9.38
3,336	638765.38	4271031.74	UCART1	9.38

3,337	638805.38	4271031.74	UCART1	9.38
3,338	638845.38	4271031.74	UCART1	9.37
3,339	638885.38	4271031.74	UCART1	9.14
3,340	638925.38	4271031.74	UCART1	9.24
3,341	638965.38	4271031.74	UCART1	9.75
3,342	639005.38	4271031.74	UCART1	10.45
3,343	638645.38	4271071.74	UCART1	9.19
3,344	638685.38	4271071.74	UCART1	9.28
3,345	638725.38	4271071.74	UCART1	9.14
3,346	638765.38	4271071.74	UCART1	9.14
3,347	638805.38	4271071.74	UCART1	9.02
3,348	638845.38	4271071.74	UCART1	8.97
3,349	638885.38	4271071.74	UCART1	9.04
3,350	638925.38	4271071.74	UCART1	9.58
3,351	638965.38	4271071.74	UCART1	10.85
3,352	639005.38	4271071.74	UCART1	10.97
3,353	638645.38	4271111.74	UCART1	9.31
3,354	638685.38	4271111.74	UCART1	9.14
3,355	638725.38	4271111.74	UCART1	9.14
3,356	638765.38	4271111.74	UCART1	9.14
3,357	638805.38	4271111.74	UCART1	8.93
3,358	638845.38	4271111.74	UCART1	9.11
3,359	638885.38	4271111.74	UCART1	9.02
3,360	638925.38	4271111.74	UCART1	8.92
3,361	638965.38	4271111.74	UCART1	9.40
3,362	639005.38	4271111.74	UCART1	10.80
3,363	638605.45	4270390.92	UCART1	10.97
3,364	638605.45	4270430.92	UCART1	10.97
3,365	638605.45	4270470.92	UCART1	10.97
3,366	638605.45	4270510.92	UCART1	10.97
3,367	638605.45	4270550.92	UCART1	10.97
3,368	638605.45	4270590.92	UCART1	10.97
3,369	638605.45	4270630.92	UCART1	10.71
3,370	638605.45	4270670.92	UCART1	10.67
3,371	638605.45	4270710.92	UCART1	10.67
3,372	638605.45	4270790.92	UCART1	10.66
3,373	638605.45	4270830.92	UCART1	10.51
3,374	638605.45	4270870.92	UCART1	10.38

3,375	638605.45	4270910.92	UCART1	10.32	
3,376	638605.45	4270950.92	UCART1	10.07	
3,377	638605.45	4270990.92	UCART1	9.80	
3,378	638605.45	4271030.92	UCART1	9.39	
3,379	638605.45	4271070.92	UCART1	9.30	
3,380	638605.45	4271110.92	UCART1	9.70	

Plant Boundary Receptors

Receptor Pathway

Cartesian Plant Boundary

Primary

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	637060.45	4271428.10	FENCEPRI	10.38	
2	637144.17	4271358.02	FENCEPRI	9.75	
3	637162.34	4271343.09	FENCEPRI	9.87	
4	637135.08	4271306.75	FENCEPRI	9.76	
5	637139.62	4271298.32	FENCEPRI	9.81	
6	637089.66	4271236.67	FENCEPRI	9.46	
7	637081.22	4271243.81	FENCEPRI	9.47	
8	637067.59	4271229.53	FENCEPRI	9.45	
9	637059.81	4271238.62	FENCEPRI	9.45	
10	637073.43	4271249.65	FENCEPRI	9.45	
11	637066.29	4271258.73	FENCEPRI	9.45	
12	637118.86	4271320.38	FENCEPRI	9.75	
13	637127.94	4271313.89	FENCEPRI	9.75	
14	637148.71	4271343.74	FENCEPRI	9.81	
15	637056.56	4271416.42	FENCEPRI	10.36	
16	637022.17	4271432.00	FENCEPRI	9.97	
17	636978.69	4271445.62	FENCEPRI	9.69	
18	636955.98	4271450.17	FENCEPRI	9.42	
19	636917.69	4271450.17	FENCEPRI	9.14	
20	636833.33	4271442.38	FENCEPRI	9.14	
21	636745.08	4271433.94	FENCEPRI	9.14	
22	636680.83	4271428.10	FENCEPRI	9.14	
23	636581.44	4271417.55	FENCEPRI	9.14	
24	636489.30	4271410.24	FENCEPRI	7.97	
25	636414.70	4271411.70	FENCEPRI	7.96	
26	636354.74	4271414.63	FENCEPRI	7.93	
27	636300.62	4271426.33	FENCEPRI	7.92	
28	636223.10	4271438.03	FENCEPRI	7.99	
29	636094.39	4271457.04	FENCEPRI	7.80	
30	636012.48	4271474.59	FENCEPRI	7.93	
31	635929.33	4271498.57	FENCEPRI	7.93	
32	635832.80	4271536.60	FENCEPRI	7.91	
33	635781.60	4271558.54	FENCEPRI	8.01	
34	635723.10	4271595.11	FENCEPRI	7.93	
35	635651.43	4271653.62	FENCEPRI	7.93	
36	635569.52	4271716.51	FENCEPRI	8.24	
37	635497.85	4271763.32	FENCEPRI	8.03	
38	635436.41	4271813.05	FENCEPRI	7.89	
39	635348.66	4271899.34	FENCEPRI	8.45	

40	635268.21	4271978.33	FENCEPRI	8.45	
41	635193.61	4272048.53	FENCEPRI	8.10	
42	635154.12	4272082.18	FENCEPRI	8.15	
43	635102.93	4272026.59	FENCEPRI	9.54	
44	635079.53	4272063.16	FENCEPRI	9.86	
45	635082.45	4272093.88	FENCEPRI	9.30	
46	635098.54	4272123.13	FENCEPRI	8.42	
47	634974.21	4272202.11	FENCEPRI	10.14	
48	634974.21	4272285.48	FENCEPRI	7.92	
49	634930.33	4272330.83	FENCEPRI	7.76	
50	634921.56	4272320.59	FENCEPRI	7.87	
51	634928.87	4272304.50	FENCEPRI	8.08	
52	634934.72	4272289.87	FENCEPRI	8.26	
53	634931.80	4272284.02	FENCEPRI	8.37	
54	634917.17	4272305.96	FENCEPRI	8.10	
55	634904.01	4272329.36	FENCEPRI	7.88	
56	634871.47	4272348.56	FENCEPRI	7.89	
57	634810.04	4272377.81	FENCEPRI	7.85	
58	634769.08	4272389.52	FENCEPRI	7.78	
59	634694.49	4272382.20	FENCEPRI	7.85	
60	634631.59	4272373.43	FENCEPRI	7.94	
61	634552.61	4272366.11	FENCEPRI	8.01	
62	634441.44	4272325.16	FENCEPRI	7.97	
63	634296.63	4272265.19	FENCEPRI	7.97	
64	634129.89	4272187.66	FENCEPRI	8.23	
65	634042.07	4272147.14	FENCEPRI	8.46	
66	633982.39	4272112.33	FENCEPRI	9.88	
67	633962.49	4272091.19	FENCEPRI	10.09	
68	633951.30	4272065.08	FENCEPRI	10.15	
69	633941.36	4272027.78	FENCEPRI	9.51	
70	633933.90	4272001.67	FENCEPRI	8.68	
71	633921.46	4271975.56	FENCEPRI	7.34	
72	633901.57	4271955.67	FENCEPRI	6.14	
73	633868.00	4271940.75	FENCEPRI	6.90	
74	633826.97	4271932.05	FENCEPRI	7.48	
75	633808.32	4271923.34	FENCEPRI	7.32	
76	633788.43	4271908.42	FENCEPRI	7.32	
77	633774.75	4271891.02	FENCEPRI	7.28	
78	633753.62	4271827.61	FENCEPRI	6.91	
79	633710.10	4271690.84	FENCEPRI	10.38	
80	633693.34	4271700.25	FENCEPRI	10.00	
81	633765.12	4271898.78	FENCEPRI	7.23	
82	633786.50	4271928.55	FENCEPRI	7.40	

83	633803.29	4271938.48	FENCEPRI	7.72	
84	633831.55	4271943.06	FENCEPRI	7.70	
85	633860.56	4271946.88	FENCEPRI	7.22	
86	633881.94	4271952.99	FENCEPRI	6.57	
87	633908.67	4271972.84	FENCEPRI	7.09	
88	633921.65	4271994.22	FENCEPRI	8.47	
89	633931.57	4272030.87	FENCEPRI	9.97	
90	633937.68	4272053.01	FENCEPRI	10.19	
91	633918.59	4272053.01	FENCEPRI	10.37	
92	633911.72	4272097.30	FENCEPRI	8.95	
93	633956.01	4272101.12	FENCEPRI	9.86	
94	634007.93	4272137.00	FENCEPRI	8.70	
95	634056.79	4272161.44	FENCEPRI	8.15	
96	634114.06	4272189.69	FENCEPRI	8.23	
97	634214.87	4272236.41	FENCEPRI	7.75	
98	634313.68	4272280.42	FENCEPRI	8.18	
99	634496.05	4272358.58	FENCEPRI	8.09	
100	634555.34	4272374.75	FENCEPRI	7.93	
101	634637.98	4272384.63	FENCEPRI	7.77	
102	634746.68	4272396.31	FENCEPRI	7.71	
103	634773.23	4272395.49	FENCEPRI	7.72	
104	634790.10	4272394.19	FENCEPRI	7.73	
105	634810.87	4272389.00	FENCEPRI	7.54	
106	634828.40	4272381.21	FENCEPRI	7.57	
107	634845.92	4272371.47	FENCEPRI	7.74	
108	634857.61	4272363.03	FENCEPRI	7.74	
109	634873.18	4272355.89	FENCEPRI	7.81	
110	634888.11	4272350.05	FENCEPRI	7.78	
111	634923.16	4272339.02	FENCEPRI	7.68	
112	634929.00	4272338.37	FENCEPRI	7.69	
113	634948.48	4272324.09	FENCEPRI	7.83	
114	634975.09	4272301.37	FENCEPRI	7.91	
115	634991.31	4272270.22	FENCEPRI	7.90	
116	635047.80	4272253.61	FENCEPRI	3.16	
117	635110.71	4272224.35	FENCEPRI	3.05	
118	635172.16	4272170.22	FENCEPRI	3.05	
119	635251.15	4272095.61	FENCEPRI	3.05	
120	635343.32	4272006.37	FENCEPRI	3.05	
121	635421.88	4271924.43	FENCEPRI	3.05	
122	635515.51	4271824.95	FENCEPRI	4.46	
123	635571.11	4271789.83	FENCEPRI	5.40	
124	635606.22	4271772.28	FENCEPRI	3.42	
125	635606.22	4271732.78	FENCEPRI	7.53	

126	635629.63	4271716.68	FENCEPRI	7.43	
127	635620.85	4271693.28	FENCEPRI	7.88	
128	635689.39	4271635.05	FENCEPRI	7.84	
129	635729.62	4271600.14	FENCEPRI	7.87	
130	635767.57	4271575.74	FENCEPRI	7.98	
131	635798.41	4271560.83	FENCEPRI	7.82	
132	635851.61	4271538.13	FENCEPRI	7.81	
133	635882.74	4271523.78	FENCEPRI	7.73	
134	635911.76	4271512.32	FENCEPRI	7.83	
135	635954.53	4271498.57	FENCEPRI	7.76	
136	636030.91	4271477.95	FENCEPRI	7.89	
137	636077.50	4271468.02	FENCEPRI	7.74	
138	636174.50	4271455.80	FENCEPRI	6.19	
139	636228.73	4271448.17	FENCEPRI	7.89	
140	636300.52	4271434.42	FENCEPRI	7.92	
141	636374.61	4271422.20	FENCEPRI	7.87	
142	636470.85	4271418.38	FENCEPRI	7.89	
143	636535.00	4271419.91	FENCEPRI	9.10	
144	636617.49	4271428.31	FENCEPRI	9.14	
145	636772.15	4271443.25	FENCEPRI	9.14	
146	636825.01	4271448.54	FENCEPRI	9.14	
147	636866.24	4271451.71	FENCEPRI	9.14	
148	636909.58	4271457.00	FENCEPRI	9.14	
149	636940.24	4271459.11	FENCEPRI	9.23	
150	636961.38	4271458.05	FENCEPRI	9.39	
151	637012.13	4271446.42	FENCEPRI	9.75	

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	UCART2	Receptors generated from Uniform Cartesian Grid
3	UCART1	Receptors generated from Uniform Cartesian Grid

Receptor Pathway

Terrain Elevations and Flagpole Heights for Network Grids

Receptor Pathway

Multi-Tier Grid (Risk)

Fenceline Grid

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: ..\..\59 SMUD\56thStSMUD_2\14-18.SFC

Format Type: Default AERMET format

Profile Met Data

Filename: ..\..\59 SMUD\56thStSMUD_2\14-18.PFL

Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 835.15 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2014			SACRAMENTO/EXECUTIVE ARPT
Upper Air		2014			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2015 Start Hour: 1 End Date: 12/25/2018 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	■	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: SCENARIO2S.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
1	Volume	1st	01H1G001.PLT
1	Sline	1st	01H1G002.PLT
Period	ALL	N/A	PE00GALL.PLT
Period	Volume	N/A	PE00G001.PLT
Period	Sline	N/A	PE00G002.PLT

Results Summary

C:\Users\shaurya.johari\OneDrive - Ascent Environmental\Desktop\Proj

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	426.83884	ug/m^3	635606.22	4271732.78	7.53	0.00	7.53	3/6/2018, 8
PERIOD		29.38825	ug/m^3	635154.12	4272082.18	8.15	0.00	8.15	

PM10 - Concentration - Source Group: SLINE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	184.97279	ug/m^3	638526.16	4270352.29	10.67	0.00	10.67	1/16/2017, 9
PERIOD		15.02437	ug/m^3	637148.71	4271343.74	9.81	0.00	9.81	

PM10 - Concentration - Source Group: VOLUME

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	423.19693	ug/m^3	635606.22	4271732.78	7.53	0.00	7.53	3/6/2018, 8
PERIOD		29.28149	ug/m^3	635154.12	4272082.18	8.15	0.00	8.15	

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RI	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_R	EGG_RISK
1	ALL		636686.2	4269592	7.17E-09	1YrCancerD	7.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		636726.2	4269592	7.25E-09	1YrCancerD	7.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		636766.2	4269592	7.34E-09	1YrCancerD	7.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		637126.2	4269592	8.80E-09	1YrCancerD	8.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		637166.2	4269592	8.48E-09	1YrCancerD	8.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		637206.2	4269592	8.20E-09	1YrCancerD	8.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		637246.2	4269592	7.95E-09	1YrCancerD	7.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		637286.2	4269592	7.73E-09	1YrCancerD	7.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		637326.2	4269592	7.54E-09	1YrCancerD	7.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		638446.2	4269592	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		638526.2	4269592	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		636766.2	4269632	7.67E-09	1YrCancerD	7.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		637166.2	4269632	8.93E-09	1YrCancerD	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		637206.2	4269632	8.59E-09	1YrCancerD	8.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		637246.2	4269632	8.30E-09	1YrCancerD	8.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		637286.2	4269632	8.04E-09	1YrCancerD	8.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		637326.2	4269632	7.83E-09	1YrCancerD	7.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		637726.2	4269632	6.79E-09	1YrCancerD	6.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		637766.2	4269632	6.76E-09	1YrCancerD	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		637806.2	4269632	6.75E-09	1YrCancerD	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		637846.2	4269632	6.75E-09	1YrCancerD	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		637886.2	4269632	6.77E-09	1YrCancerD	6.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		637926.2	4269632	6.82E-09	1YrCancerD	6.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		637966.2	4269632	6.89E-09	1YrCancerD	6.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		638006.2	4269632	6.99E-09	1YrCancerD	6.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		638046.2	4269632	7.13E-09	1YrCancerD	7.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		638086.2	4269632	7.32E-09	1YrCancerD	7.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		638126.2	4269632	7.56E-09	1YrCancerD	7.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		638166.2	4269632	7.87E-09	1YrCancerD	7.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		638206.2	4269632	8.27E-09	1YrCancerD	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		638246.2	4269632	8.79E-09	1YrCancerD	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		638286.2	4269632	9.45E-09	1YrCancerD	9.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		638326.2	4269632	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		638366.2	4269632	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		638406.2	4269632	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		638446.2	4269632	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		638486.2	4269632	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		638526.2	4269632	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		638566.2	4269632	5.58E-08	1YrCancerD	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		636686.2	4269672	7.67E-09	1YrCancerD	7.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		636726.2	4269672	7.83E-09	1YrCancerD	7.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		637206.2	4269672	9.03E-09	1YrCancerD	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		637246.2	4269672	8.69E-09	1YrCancerD	8.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		637286.2	4269672	8.40E-09	1YrCancerD	8.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		637326.2	4269672	8.15E-09	1YrCancerD	8.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		637366.2	4269672	7.94E-09	1YrCancerD	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		637686.2	4269672	7.05E-09	1YrCancerD	7.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		637766.2	4269672	6.95E-09	1YrCancerD	6.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		637806.2	4269672	6.92E-09	1YrCancerD	6.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		637846.2	4269672	6.91E-09	1YrCancerD	6.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		637886.2	4269672	6.93E-09	1YrCancerD	6.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		637926.2	4269672	6.97E-09	1YrCancerD	6.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		637966.2	4269672	7.03E-09	1YrCancerD	7.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		638006.2	4269672	7.13E-09	1YrCancerD	7.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		638046.2	4269672	7.27E-09	1YrCancerD	7.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		638086.2	4269672	7.45E-09	1YrCancerD	7.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		638126.2	4269672	7.69E-09	1YrCancerD	7.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		638166.2	4269672	8.00E-09	1YrCancerD	8.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		638206.2	4269672	8.39E-09	1YrCancerD	8.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		638246.2	4269672	8.90E-09	1YrCancerD	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		638286.2	4269672	9.57E-09	1YrCancerD	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		638326.2	4269672	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		638366.2	4269672	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		638406.2	4269672	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		638446.2	4269672	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		638486.2	4269672	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		638526.2	4269672	2.88E-08	1YrCancerD	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		638566.2	4269672	5.50E-08	1YrCancerD	5.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		636686.2	4269712	7.97E-09	1YrCancerD	7.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		636726.2	4269712	8.20E-09	1YrCancerD	8.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		636766.2	4269712	8.53E-09	1YrCancerD	8.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		637286.2	4269712	8.79E-09	1YrCancerD	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		637326.2	4269712	8.51E-09	1YrCancerD	8.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		637366.2	4269712	8.28E-09	1YrCancerD	8.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		637686.2	4269712	7.27E-09	1YrCancerD	7.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		637766.2	4269712	7.15E-09	1YrCancerD	7.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		637806.2	4269712	7.11E-09	1YrCancerD	7.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		637846.2	4269712	7.10E-09	1YrCancerD	7.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		637886.2	4269712	7.10E-09	1YrCancerD	7.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		637926.2	4269712	7.13E-09	1YrCancerD	7.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		637966.2	4269712	7.19E-09	1YrCancerD	7.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		638006.2	4269712	7.28E-09	1YrCancerD	7.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		638046.2	4269712	7.41E-09	1YrCancerD	7.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		638086.2	4269712	7.58E-09	1YrCancerD	7.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		638126.2	4269712	7.82E-09	1YrCancerD	7.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		638166.2	4269712	8.12E-09	1YrCancerD	8.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		638206.2	4269712	8.52E-09	1YrCancerD	8.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		638246.2	4269712	9.03E-09	1YrCancerD	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		638286.2	4269712	9.69E-09	1YrCancerD	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
90	ALL		638326.2	4269712	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL		638366.2	4269712	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL		638406.2	4269712	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL		638446.2	4269712	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

94	ALL	638486.2	4269712	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	638526.2	4269712	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	638566.2	4269712	5.42E-08	1YrCancerD	5.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	636646.2	4269752	8.06E-09	1YrCancerD	8.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	636686.2	4269752	8.29E-09	1YrCancerD	8.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	636726.2	4269752	8.63E-09	1YrCancerD	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	636766.2	4269752	9.12E-09	1YrCancerD	9.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	636806.2	4269752	9.86E-09	1YrCancerD	9.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	637086.2	4269752	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	637126.2	4269752	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	637286.2	4269752	9.25E-09	1YrCancerD	9.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	637326.2	4269752	8.94E-09	1YrCancerD	8.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	637686.2	4269752	7.53E-09	1YrCancerD	7.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	637726.2	4269752	7.45E-09	1YrCancerD	7.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	637766.2	4269752	7.38E-09	1YrCancerD	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	637806.2	4269752	7.33E-09	1YrCancerD	7.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	637846.2	4269752	7.30E-09	1YrCancerD	7.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	637886.2	4269752	7.29E-09	1YrCancerD	7.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	637926.2	4269752	7.31E-09	1YrCancerD	7.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	637966.2	4269752	7.35E-09	1YrCancerD	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	638006.2	4269752	7.43E-09	1YrCancerD	7.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	638046.2	4269752	7.56E-09	1YrCancerD	7.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	638086.2	4269752	7.73E-09	1YrCancerD	7.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	638126.2	4269752	7.96E-09	1YrCancerD	7.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	638166.2	4269752	8.26E-09	1YrCancerD	8.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	638206.2	4269752	8.65E-09	1YrCancerD	8.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	638246.2	4269752	9.16E-09	1YrCancerD	9.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	638286.2	4269752	9.83E-09	1YrCancerD	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	638326.2	4269752	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	638366.2	4269752	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	638406.2	4269752	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	638446.2	4269752	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	638486.2	4269752	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	638526.2	4269752	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	638566.2	4269752	5.36E-08	1YrCancerD	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	636646.2	4269792	8.34E-09	1YrCancerD	8.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	636686.2	4269792	8.63E-09	1YrCancerD	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	636726.2	4269792	9.10E-09	1YrCancerD	9.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	636766.2	4269792	9.84E-09	1YrCancerD	9.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	636806.2	4269792	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	636846.2	4269792	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	637046.2	4269792	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	637086.2	4269792	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	637126.2	4269792	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	637166.2	4269792	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	637286.2	4269792	9.80E-09	1YrCancerD	9.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	637326.2	4269792	9.45E-09	1YrCancerD	9.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	637646.2	4269792	7.95E-09	1YrCancerD	7.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	637686.2	4269792	7.83E-09	1YrCancerD	7.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	637726.2	4269792	7.73E-09	1YrCancerD	7.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	637766.2	4269792	7.64E-09	1YrCancerD	7.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	637806.2	4269792	7.57E-09	1YrCancerD	7.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	637846.2	4269792	7.52E-09	1YrCancerD	7.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	637886.2	4269792	7.50E-09	1YrCancerD	7.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	637926.2	4269792	7.50E-09	1YrCancerD	7.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	637966.2	4269792	7.53E-09	1YrCancerD	7.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	638006.2	4269792	7.60E-09	1YrCancerD	7.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	638046.2	4269792	7.72E-09	1YrCancerD	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	638086.2	4269792	7.88E-09	1YrCancerD	7.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	638126.2	4269792	8.11E-09	1YrCancerD	8.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	638166.2	4269792	8.41E-09	1YrCancerD	8.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	638206.2	4269792	8.80E-09	1YrCancerD	8.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	638246.2	4269792	9.31E-09	1YrCancerD	9.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	638286.2	4269792	9.98E-09	1YrCancerD	9.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	638326.2	4269792	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	638366.2	4269792	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	638406.2	4269792	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	638446.2	4269792	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	638526.2	4269792	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	638566.2	4269792	5.33E-08	1YrCancerD	5.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	636646.2	4269832	8.65E-09	1YrCancerD	8.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	636686.2	4269832	9.03E-09	1YrCancerD	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	636726.2	4269832	9.67E-09	1YrCancerD	9.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	636766.2	4269832	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	636806.2	4269832	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	636846.2	4269832	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	637006.2	4269832	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	637046.2	4269832	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	637086.2	4269832	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	637126.2	4269832	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	637166.2	4269832	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	637206.2	4269832	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	637246.2	4269832	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	637286.2	4269832	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	637326.2	4269832	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	637646.2	4269832	8.33E-09	1YrCancerD	8.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	637686.2	4269832	8.19E-09	1YrCancerD	8.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
181	ALL	637726.2	4269832	8.05E-09	1YrCancerD	8.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	637766.2	4269832	7.94E-09	1YrCancerD	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	637806.2	4269832	7.84E-09	1YrCancerD	7.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	637846.2	4269832	7.77E-09	1YrCancerD	7.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	637886.2	4269832	7.72E-09	1YrCancerD	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	637926.2	4269832	7.71E-09	1YrCancerD	7.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	637966.2	4269832	7.72E-09	1YrCancerD	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

188	ALL	638006.2	4269832	7.78E-09	1YrCancerD	7.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	638046.2	4269832	7.89E-09	1YrCancerD	7.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	638086.2	4269832	8.05E-09	1YrCancerD	8.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	638126.2	4269832	8.27E-09	1YrCancerD	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	638166.2	4269832	8.57E-09	1YrCancerD	8.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	638206.2	4269832	8.96E-09	1YrCancerD	8.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	638246.2	4269832	9.48E-09	1YrCancerD	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	638286.2	4269832	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	638326.2	4269832	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	638366.2	4269832	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	638406.2	4269832	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	638446.2	4269832	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	638526.2	4269832	2.88E-08	1YrCancerD	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	638566.2	4269832	5.33E-08	1YrCancerD	5.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	636646.2	4269872	9.02E-09	1YrCancerD	9.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	636686.2	4269872	9.52E-09	1YrCancerD	9.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	636726.2	4269872	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	636766.2	4269872	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	636806.2	4269872	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	636846.2	4269872	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	637006.2	4269872	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	637046.2	4269872	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	637086.2	4269872	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	637126.2	4269872	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	637166.2	4269872	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	637206.2	4269872	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	637246.2	4269872	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	637286.2	4269872	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	637646.2	4269872	8.80E-09	1YrCancerD	8.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	637686.2	4269872	8.61E-09	1YrCancerD	8.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	637726.2	4269872	8.43E-09	1YrCancerD	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	637766.2	4269872	8.28E-09	1YrCancerD	8.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	637806.2	4269872	8.15E-09	1YrCancerD	8.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	637846.2	4269872	8.05E-09	1YrCancerD	8.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	637886.2	4269872	7.97E-09	1YrCancerD	7.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	637926.2	4269872	7.93E-09	1YrCancerD	7.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	637966.2	4269872	7.93E-09	1YrCancerD	7.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	638006.2	4269872	7.98E-09	1YrCancerD	7.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	638046.2	4269872	8.07E-09	1YrCancerD	8.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	638086.2	4269872	8.23E-09	1YrCancerD	8.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	638126.2	4269872	8.44E-09	1YrCancerD	8.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	638166.2	4269872	8.74E-09	1YrCancerD	8.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	638206.2	4269872	9.14E-09	1YrCancerD	9.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	638246.2	4269872	9.66E-09	1YrCancerD	9.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	638286.2	4269872	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	638326.2	4269872	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	638366.2	4269872	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	638406.2	4269872	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	638446.2	4269872	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	638486.2	4269872	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	638526.2	4269872	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	638566.2	4269872	5.35E-08	1YrCancerD	5.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	636646.2	4269912	9.45E-09	1YrCancerD	9.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	636686.2	4269912	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	636726.2	4269912	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	636766.2	4269912	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	636806.2	4269912	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	637046.2	4269912	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	637086.2	4269912	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	637126.2	4269912	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	637166.2	4269912	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	637206.2	4269912	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	637246.2	4269912	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	637286.2	4269912	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	637646.2	4269912	9.38E-09	1YrCancerD	9.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	637686.2	4269912	9.13E-09	1YrCancerD	9.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	637726.2	4269912	8.90E-09	1YrCancerD	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	637766.2	4269912	8.69E-09	1YrCancerD	8.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	637806.2	4269912	8.51E-09	1YrCancerD	8.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	637846.2	4269912	8.36E-09	1YrCancerD	8.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	637886.2	4269912	8.25E-09	1YrCancerD	8.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	637926.2	4269912	8.18E-09	1YrCancerD	8.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	637966.2	4269912	8.16E-09	1YrCancerD	8.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	638006.2	4269912	8.19E-09	1YrCancerD	8.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	638046.2	4269912	8.28E-09	1YrCancerD	8.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	638086.2	4269912	8.42E-09	1YrCancerD	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	638126.2	4269912	8.63E-09	1YrCancerD	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	638166.2	4269912	8.93E-09	1YrCancerD	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	638206.2	4269912	9.33E-09	1YrCancerD	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	638246.2	4269912	9.87E-09	1YrCancerD	9.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	638286.2	4269912	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	638326.2	4269912	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	638366.2	4269912	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	638406.2	4269912	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
272	ALL	638446.2	4269912	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	638486.2	4269912	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	638526.2	4269912	2.92E-08	1YrCancerD	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	638566.2	4269912	5.37E-08	1YrCancerD	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	636646.2	4269952	9.93E-09	1YrCancerD	9.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	636686.2	4269952	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	636726.2	4269952	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	636766.2	4269952	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	636806.2	4269952	2.15E-08	1YrCancerD	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	637086.2	4269952	3.06E-08	1YrCancerD	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

282	ALL	637126.2	4269952	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	637166.2	4269952	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	637206.2	4269952	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	637246.2	4269952	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	637286.2	4269952	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	637606.2	4269952	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	637646.2	4269952	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	637686.2	4269952	9.79E-09	1YrCancerD	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	637726.2	4269952	9.47E-09	1YrCancerD	9.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	637766.2	4269952	9.18E-09	1YrCancerD	9.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	637806.2	4269952	8.93E-09	1YrCancerD	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	637846.2	4269952	8.72E-09	1YrCancerD	8.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	637886.2	4269952	8.56E-09	1YrCancerD	8.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	637926.2	4269952	8.46E-09	1YrCancerD	8.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	637966.2	4269952	8.41E-09	1YrCancerD	8.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	638006.2	4269952	8.42E-09	1YrCancerD	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	638046.2	4269952	8.50E-09	1YrCancerD	8.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	638086.2	4269952	8.63E-09	1YrCancerD	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	638126.2	4269952	8.84E-09	1YrCancerD	8.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	638166.2	4269952	9.15E-09	1YrCancerD	9.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	638206.2	4269952	9.56E-09	1YrCancerD	9.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	638246.2	4269952	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	638286.2	4269952	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	638326.2	4269952	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	638366.2	4269952	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	638406.2	4269952	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	638446.2	4269952	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	638486.2	4269952	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	638526.2	4269952	2.95E-08	1YrCancerD	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	638566.2	4269952	5.40E-08	1YrCancerD	5.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	636286.2	4269992	8.76E-09	1YrCancerD	8.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	636326.2	4269992	8.82E-09	1YrCancerD	8.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	636366.2	4269992	8.87E-09	1YrCancerD	8.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	636406.2	4269992	8.93E-09	1YrCancerD	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	636606.2	4269992	9.89E-09	1YrCancerD	9.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	636646.2	4269992	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	636686.2	4269992	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	636726.2	4269992	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	636766.2	4269992	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	636806.2	4269992	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	637086.2	4269992	5.98E-08	1YrCancerD	5.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	637126.2	4269992	3.32E-08	1YrCancerD	3.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	637166.2	4269992	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	637206.2	4269992	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	637246.2	4269992	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	637286.2	4269992	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	637606.2	4269992	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	637646.2	4269992	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	637686.2	4269992	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	637806.2	4269992	9.42E-09	1YrCancerD	9.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	637846.2	4269992	9.13E-09	1YrCancerD	9.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	637886.2	4269992	8.91E-09	1YrCancerD	8.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	637926.2	4269992	8.76E-09	1YrCancerD	8.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	637966.2	4269992	8.69E-09	1YrCancerD	8.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	638006.2	4269992	8.68E-09	1YrCancerD	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	638046.2	4269992	8.74E-09	1YrCancerD	8.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	638086.2	4269992	8.87E-09	1YrCancerD	8.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	638126.2	4269992	9.08E-09	1YrCancerD	9.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	638166.2	4269992	9.40E-09	1YrCancerD	9.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	638206.2	4269992	9.83E-09	1YrCancerD	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	638246.2	4269992	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	638286.2	4269992	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	638326.2	4269992	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	638366.2	4269992	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	638406.2	4269992	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	638446.2	4269992	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	638486.2	4269992	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	638526.2	4269992	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	638566.2	4269992	5.43E-08	1YrCancerD	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	636166.2	4270032	8.70E-09	1YrCancerD	8.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	636246.2	4270032	8.95E-09	1YrCancerD	8.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	636286.2	4270032	9.01E-09	1YrCancerD	9.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	636326.2	4270032	9.06E-09	1YrCancerD	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	636366.2	4270032	9.11E-09	1YrCancerD	9.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	636406.2	4270032	9.17E-09	1YrCancerD	9.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	636606.2	4270032	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	636646.2	4270032	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	636686.2	4270032	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	636726.2	4270032	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	636766.2	4270032	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	636806.2	4270032	3.48E-08	1YrCancerD	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
363	ALL	636886.2	4270032	4.94E-08	1YrCancerD	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	636926.2	4270032	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	636966.2	4270032	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	637166.2	4270032	4.88E-08	1YrCancerD	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	637206.2	4270032	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	637246.2	4270032	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	637606.2	4270032	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	637646.2	4270032	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	637686.2	4270032	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	637766.2	4270032	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	637806.2	4270032	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	637846.2	4270032	9.59E-09	1YrCancerD	9.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	637886.2	4270032	9.30E-09	1YrCancerD	9.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

376	ALL	637926.2	4270032	9.10E-09	1YrCancerD	9.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	637966.2	4270032	8.99E-09	1YrCancerD	8.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	638006.2	4270032	8.96E-09	1YrCancerD	8.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	638046.2	4270032	9.01E-09	1YrCancerD	9.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	638086.2	4270032	9.14E-09	1YrCancerD	9.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	638126.2	4270032	9.35E-09	1YrCancerD	9.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	638206.2	4270032	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	638246.2	4270032	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	638286.2	4270032	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	638326.2	4270032	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	638366.2	4270032	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	638406.2	4270032	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	638446.2	4270032	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	638486.2	4270032	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	638526.2	4270032	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	638566.2	4270032	5.48E-08	1YrCancerD	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	636046.2	4270072	8.43E-09	1YrCancerD	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	636086.2	4270072	8.66E-09	1YrCancerD	8.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	636126.2	4270072	8.84E-09	1YrCancerD	8.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	636166.2	4270072	9.00E-09	1YrCancerD	9.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	636206.2	4270072	9.13E-09	1YrCancerD	9.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	636246.2	4270072	9.21E-09	1YrCancerD	9.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	636326.2	4270072	9.31E-09	1YrCancerD	9.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	636366.2	4270072	9.36E-09	1YrCancerD	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	636406.2	4270072	9.43E-09	1YrCancerD	9.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	636606.2	4270072	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	636646.2	4270072	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	636686.2	4270072	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	636726.2	4270072	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	636766.2	4270072	2.35E-08	1YrCancerD	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	636806.2	4270072	4.81E-08	1YrCancerD	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	636846.2	4270072	1.24E-07	1YrCancerD	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	636886.2	4270072	4.02E-08	1YrCancerD	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	636926.2	4270072	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	636966.2	4270072	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	637006.2	4270072	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	637046.2	4270072	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	637086.2	4270072	4.21E-08	1YrCancerD	4.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	637246.2	4270072	7.59E-08	1YrCancerD	7.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	637606.2	4270072	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	637646.2	4270072	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	637686.2	4270072	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	637726.2	4270072	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	637766.2	4270072	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	637806.2	4270072	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	637846.2	4270072	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	637886.2	4270072	9.75E-09	1YrCancerD	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	637926.2	4270072	9.48E-09	1YrCancerD	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	637966.2	4270072	9.33E-09	1YrCancerD	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	638006.2	4270072	9.28E-09	1YrCancerD	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	638046.2	4270072	9.31E-09	1YrCancerD	9.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	638086.2	4270072	9.44E-09	1YrCancerD	9.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	638126.2	4270072	9.67E-09	1YrCancerD	9.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	638166.2	4270072	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	638206.2	4270072	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	638326.2	4270072	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	638366.2	4270072	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	638406.2	4270072	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	638446.2	4270072	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	638486.2	4270072	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	638526.2	4270072	3.12E-08	1YrCancerD	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	638566.2	4270072	5.57E-08	1YrCancerD	5.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	635926.2	4270112	7.98E-09	1YrCancerD	7.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	635966.2	4270112	8.26E-09	1YrCancerD	8.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	636006.2	4270112	8.52E-09	1YrCancerD	8.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	636046.2	4270112	8.76E-09	1YrCancerD	8.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	636086.2	4270112	8.97E-09	1YrCancerD	8.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	636126.2	4270112	9.16E-09	1YrCancerD	9.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	636166.2	4270112	9.30E-09	1YrCancerD	9.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	636206.2	4270112	9.41E-09	1YrCancerD	9.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	636246.2	4270112	9.48E-09	1YrCancerD	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	636326.2	4270112	9.57E-09	1YrCancerD	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	636406.2	4270112	9.70E-09	1YrCancerD	9.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	636446.2	4270112	9.86E-09	1YrCancerD	9.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	636606.2	4270112	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	636646.2	4270112	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	636686.2	4270112	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	636726.2	4270112	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
454	ALL	636766.2	4270112	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	636806.2	4270112	7.66E-08	1YrCancerD	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	636846.2	4270112	7.55E-08	1YrCancerD	7.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	636886.2	4270112	3.35E-08	1YrCancerD	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	636926.2	4270112	2.41E-08	1YrCancerD	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	636966.2	4270112	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	637006.2	4270112	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	637046.2	4270112	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	637086.2	4270112	2.62E-08	1YrCancerD	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	637166.2	4270112	3.89E-08	1YrCancerD	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	637206.2	4270112	5.03E-08	1YrCancerD	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	637246.2	4270112	6.41E-08	1YrCancerD	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	637606.2	4270112	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	637646.2	4270112	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	637686.2	4270112	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	637726.2	4270112	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

470	ALL	637806.2	4270112	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	637846.2	4270112	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	637886.2	4270112	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	637926.2	4270112	9.92E-09	1YrCancerD	9.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	637966.2	4270112	9.71E-09	1YrCancerD	9.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	638006.2	4270112	9.63E-09	1YrCancerD	9.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	638046.2	4270112	9.65E-09	1YrCancerD	9.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	638086.2	4270112	9.78E-09	1YrCancerD	9.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	638126.2	4270112	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	638166.2	4270112	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	638206.2	4270112	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	638326.2	4270112	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	638366.2	4270112	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	638406.2	4270112	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	638446.2	4270112	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	638486.2	4270112	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	638526.2	4270112	3.24E-08	1YrCancerD	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	638566.2	4270112	5.73E-08	1YrCancerD	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	635966.2	4270152	8.60E-09	1YrCancerD	8.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	636006.2	4270152	8.86E-09	1YrCancerD	8.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	636046.2	4270152	9.10E-09	1YrCancerD	9.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	636086.2	4270152	9.30E-09	1YrCancerD	9.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	636126.2	4270152	9.47E-09	1YrCancerD	9.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	636166.2	4270152	9.60E-09	1YrCancerD	9.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	636206.2	4270152	9.69E-09	1YrCancerD	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	636246.2	4270152	9.75E-09	1YrCancerD	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	636286.2	4270152	9.79E-09	1YrCancerD	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	636326.2	4270152	9.83E-09	1YrCancerD	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	636406.2	4270152	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	636446.2	4270152	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	636606.2	4270152	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	636646.2	4270152	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	636686.2	4270152	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	636726.2	4270152	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	636766.2	4270152	4.03E-08	1YrCancerD	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	636846.2	4270152	5.14E-08	1YrCancerD	5.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	636886.2	4270152	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	636926.2	4270152	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	636966.2	4270152	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	637006.2	4270152	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	637046.2	4270152	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	637086.2	4270152	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	637166.2	4270152	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	637206.2	4270152	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	637246.2	4270152	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	637606.2	4270152	4.39E-08	1YrCancerD	4.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	637646.2	4270152	2.86E-08	1YrCancerD	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	637686.2	4270152	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	637726.2	4270152	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	637766.2	4270152	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	637846.2	4270152	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	637886.2	4270152	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	637926.2	4270152	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	637966.2	4270152	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	638006.2	4270152	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	638046.2	4270152	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	638086.2	4270152	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	638126.2	4270152	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	638166.2	4270152	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	638206.2	4270152	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	638246.2	4270152	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	638286.2	4270152	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	638326.2	4270152	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	638366.2	4270152	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	638406.2	4270152	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	638486.2	4270152	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	638526.2	4270152	3.46E-08	1YrCancerD	3.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	638566.2	4270152	6.14E-08	1YrCancerD	6.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	635966.2	4270192	8.97E-09	1YrCancerD	8.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	636006.2	4270192	9.23E-09	1YrCancerD	9.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	636046.2	4270192	9.45E-09	1YrCancerD	9.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	636086.2	4270192	9.64E-09	1YrCancerD	9.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	636166.2	4270192	9.90E-09	1YrCancerD	9.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	636206.2	4270192	9.98E-09	1YrCancerD	9.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	636246.2	4270192	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
545	ALL	636286.2	4270192	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	636326.2	4270192	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	636366.2	4270192	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	636406.2	4270192	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	636446.2	4270192	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	636566.2	4270192	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	636606.2	4270192	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	636646.2	4270192	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	636686.2	4270192	2.67E-08	1YrCancerD	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	636726.2	4270192	3.84E-08	1YrCancerD	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	636806.2	4270192	8.70E-08	1YrCancerD	8.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	636846.2	4270192	3.68E-08	1YrCancerD	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	636886.2	4270192	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	636926.2	4270192	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	636966.2	4270192	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	637006.2	4270192	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	637046.2	4270192	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	637086.2	4270192	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	637166.2	4270192	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

564	ALL	637206.2	4270192	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	637246.2	4270192	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	637566.2	4270192	6.15E-08	1YrCancerD	6.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	637686.2	4270192	3.19E-08	1YrCancerD	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	637726.2	4270192	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	637766.2	4270192	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	637806.2	4270192	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	637846.2	4270192	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	637886.2	4270192	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	637926.2	4270192	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	637966.2	4270192	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	638006.2	4270192	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	638046.2	4270192	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	638086.2	4270192	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	638126.2	4270192	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	638166.2	4270192	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	638206.2	4270192	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	638246.2	4270192	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	638286.2	4270192	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	638326.2	4270192	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	638366.2	4270192	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	638406.2	4270192	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	638446.2	4270192	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	638486.2	4270192	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	635966.2	4270232	9.35E-09	1YrCancerD	9.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	636006.2	4270232	9.60E-09	1YrCancerD	9.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	636046.2	4270232	9.82E-09	1YrCancerD	9.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	636086.2	4270232	9.99E-09	1YrCancerD	9.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	636166.2	4270232	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	636206.2	4270232	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	636246.2	4270232	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	636286.2	4270232	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	636326.2	4270232	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	636366.2	4270232	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	636406.2	4270232	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	636446.2	4270232	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	636566.2	4270232	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	636606.2	4270232	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	636646.2	4270232	2.88E-08	1YrCancerD	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	636686.2	4270232	4.95E-08	1YrCancerD	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	636766.2	4270232	1.05E-07	1YrCancerD	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	636806.2	4270232	4.30E-08	1YrCancerD	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	636846.2	4270232	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	636886.2	4270232	2.15E-08	1YrCancerD	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	636926.2	4270232	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	636966.2	4270232	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	637006.2	4270232	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	637046.2	4270232	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	637086.2	4270232	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	637206.2	4270232	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	637246.2	4270232	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	637566.2	4270232	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	637606.2	4270232	4.33E-08	1YrCancerD	4.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	637726.2	4270232	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	637766.2	4270232	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	637806.2	4270232	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	637886.2	4270232	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	637926.2	4270232	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	637966.2	4270232	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	638006.2	4270232	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	638046.2	4270232	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	638086.2	4270232	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	638126.2	4270232	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	638166.2	4270232	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	638206.2	4270232	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	638246.2	4270232	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	638286.2	4270232	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	638326.2	4270232	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	638366.2	4270232	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	638406.2	4270232	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	638446.2	4270232	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	638486.2	4270232	3.31E-08	1YrCancerD	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
636	ALL	638526.2	4270232	4.88E-08	1YrCancerD	4.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	635966.2	4270272	9.76E-09	1YrCancerD	9.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	636006.2	4270272	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	636086.2	4270272	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	636126.2	4270272	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	636166.2	4270272	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	636206.2	4270272	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	636366.2	4270272	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	636406.2	4270272	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	636446.2	4270272	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	636566.2	4270272	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	636606.2	4270272	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	636646.2	4270272	7.02E-08	1YrCancerD	7.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	636686.2	4270272	7.97E-08	1YrCancerD	7.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	636726.2	4270272	6.84E-08	1YrCancerD	6.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	636766.2	4270272	4.28E-08	1YrCancerD	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	636806.2	4270272	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	636846.2	4270272	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	636886.2	4270272	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	636926.2	4270272	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	636966.2	4270272	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	637006.2	4270272	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

658	ALL	637046.2	4270272	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	637566.2	4270272	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	637606.2	4270272	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	637646.2	4270272	4.25E-08	1YrCancerD	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	637726.2	4270272	4.62E-08	1YrCancerD	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	637766.2	4270272	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	637806.2	4270272	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	637846.2	4270272	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	637926.2	4270272	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	637966.2	4270272	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	638006.2	4270272	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	638046.2	4270272	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	638086.2	4270272	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	638126.2	4270272	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	638166.2	4270272	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	638206.2	4270272	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	638246.2	4270272	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	638286.2	4270272	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	638326.2	4270272	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	638366.2	4270272	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	638406.2	4270272	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	638446.2	4270272	3.25E-08	1YrCancerD	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	638486.2	4270272	4.32E-08	1YrCancerD	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	638526.2	4270272	7.65E-08	1YrCancerD	7.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	635966.2	4270312	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	636006.2	4270312	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	636046.2	4270312	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	636086.2	4270312	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	636126.2	4270312	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	636166.2	4270312	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	636206.2	4270312	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	636286.2	4270312	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	636326.2	4270312	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	636366.2	4270312	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	636406.2	4270312	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	636446.2	4270312	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	636566.2	4270312	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	636606.2	4270312	6.12E-08	1YrCancerD	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	636646.2	4270312	1.20E-07	1YrCancerD	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	636686.2	4270312	5.23E-08	1YrCancerD	5.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	636726.2	4270312	3.75E-08	1YrCancerD	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	636766.2	4270312	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	636806.2	4270312	2.35E-08	1YrCancerD	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	636846.2	4270312	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	636886.2	4270312	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	636926.2	4270312	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	636966.2	4270312	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	637006.2	4270312	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	637046.2	4270312	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	637086.2	4270312	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	637126.2	4270312	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	637166.2	4270312	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	637606.2	4270312	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	637646.2	4270312	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	637686.2	4270312	5.71E-08	1YrCancerD	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	637766.2	4270312	3.65E-08	1YrCancerD	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	637806.2	4270312	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	637846.2	4270312	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	637886.2	4270312	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	637966.2	4270312	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	638006.2	4270312	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	638046.2	4270312	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	638086.2	4270312	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	638126.2	4270312	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	638166.2	4270312	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	638206.2	4270312	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	638246.2	4270312	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	638286.2	4270312	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	638326.2	4270312	2.54E-08	1YrCancerD	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
727	ALL	638366.2	4270312	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	638406.2	4270312	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	638446.2	4270312	4.63E-08	1YrCancerD	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	638486.2	4270312	7.13E-08	1YrCancerD	7.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	638566.2	4270312	1.21E-07	1YrCancerD	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	635966.2	4270352	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	636006.2	4270352	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	636046.2	4270352	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	636086.2	4270352	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	636126.2	4270352	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	636166.2	4270352	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	636206.2	4270352	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	636286.2	4270352	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	636326.2	4270352	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	636366.2	4270352	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	636406.2	4270352	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	636446.2	4270352	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	636566.2	4270352	3.45E-08	1YrCancerD	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	636606.2	4270352	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	636646.2	4270352	5.38E-08	1YrCancerD	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	636686.2	4270352	3.55E-08	1YrCancerD	3.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	636726.2	4270352	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	636766.2	4270352	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	636806.2	4270352	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	636846.2	4270352	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

752	ALL	636886.2	4270352	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	636926.2	4270352	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	636966.2	4270352	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	637006.2	4270352	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	637046.2	4270352	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	637086.2	4270352	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	637126.2	4270352	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	637166.2	4270352	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	637206.2	4270352	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	637606.2	4270352	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	637646.2	4270352	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	637686.2	4270352	3.31E-08	1YrCancerD	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	637726.2	4270352	9.23E-08	1YrCancerD	9.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	637806.2	4270352	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	637846.2	4270352	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	637886.2	4270352	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	637926.2	4270352	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	637966.2	4270352	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	638046.2	4270352	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	638086.2	4270352	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	638126.2	4270352	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	638166.2	4270352	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	638206.2	4270352	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	638246.2	4270352	2.48E-08	1YrCancerD	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	638286.2	4270352	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	638326.2	4270352	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	638366.2	4270352	4.42E-08	1YrCancerD	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	638406.2	4270352	6.08E-08	1YrCancerD	6.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	638446.2	4270352	9.85E-08	1YrCancerD	9.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	638526.2	4270352	1.35E-07	1YrCancerD	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	638566.2	4270352	6.30E-08	1YrCancerD	6.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	635966.2	4270392	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	636006.2	4270392	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	636046.2	4270392	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	636086.2	4270392	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	636126.2	4270392	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	636166.2	4270392	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	636206.2	4270392	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	636526.2	4270392	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	636566.2	4270392	6.26E-08	1YrCancerD	6.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	636606.2	4270392	8.46E-08	1YrCancerD	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	636646.2	4270392	3.95E-08	1YrCancerD	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	636686.2	4270392	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	636726.2	4270392	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	636766.2	4270392	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	636806.2	4270392	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	636846.2	4270392	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	636886.2	4270392	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	636926.2	4270392	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	636966.2	4270392	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	637006.2	4270392	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	637046.2	4270392	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	637086.2	4270392	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	637126.2	4270392	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	637166.2	4270392	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	637206.2	4270392	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	637606.2	4270392	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	637646.2	4270392	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	637686.2	4270392	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	637726.2	4270392	4.18E-08	1YrCancerD	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	637846.2	4270392	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	637886.2	4270392	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	637926.2	4270392	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	637966.2	4270392	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	638006.2	4270392	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	638086.2	4270392	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
818	ALL	638126.2	4270392	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	638166.2	4270392	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	638206.2	4270392	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	638246.2	4270392	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	638286.2	4270392	4.45E-08	1YrCancerD	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	638326.2	4270392	6.20E-08	1YrCancerD	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	638366.2	4270392	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	638486.2	4270392	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	638526.2	4270392	6.23E-08	1YrCancerD	6.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	638566.2	4270392	4.09E-08	1YrCancerD	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	635966.2	4270432	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	636006.2	4270432	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	636046.2	4270432	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	636126.2	4270432	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	636166.2	4270432	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	636206.2	4270432	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	636286.2	4270432	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	636326.2	4270432	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	636366.2	4270432	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	636406.2	4270432	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	636446.2	4270432	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	636526.2	4270432	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	636606.2	4270432	5.83E-08	1YrCancerD	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	636646.2	4270432	3.37E-08	1YrCancerD	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	636686.2	4270432	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	636726.2	4270432	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	636766.2	4270432	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	636806.2	4270432	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

846	ALL	636846.2	4270432	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	636886.2	4270432	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	636926.2	4270432	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	636966.2	4270432	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	637006.2	4270432	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	637046.2	4270432	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	637086.2	4270432	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	637126.2	4270432	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	637166.2	4270432	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	637206.2	4270432	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	637606.2	4270432	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	637646.2	4270432	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	637686.2	4270432	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	637726.2	4270432	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	637766.2	4270432	6.09E-08	1YrCancerD	6.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	637886.2	4270432	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	637926.2	4270432	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	637966.2	4270432	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	638006.2	4270432	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	638046.2	4270432	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	638086.2	4270432	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	638166.2	4270432	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	638206.2	4270432	4.44E-08	1YrCancerD	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	638246.2	4270432	6.30E-08	1YrCancerD	6.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	638286.2	4270432	1.09E-07	1YrCancerD	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	638406.2	4270432	9.86E-08	1YrCancerD	9.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	638446.2	4270432	6.96E-08	1YrCancerD	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	638486.2	4270432	5.24E-08	1YrCancerD	5.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	638526.2	4270432	3.92E-08	1YrCancerD	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	638566.2	4270432	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	636006.2	4270472	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	636046.2	4270472	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	636086.2	4270472	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	636126.2	4270472	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	636166.2	4270472	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	636206.2	4270472	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	636526.2	4270472	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	636606.2	4270472	4.94E-08	1YrCancerD	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	636646.2	4270472	3.09E-08	1YrCancerD	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	636686.2	4270472	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	636726.2	4270472	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	636766.2	4270472	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	636806.2	4270472	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	636846.2	4270472	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	636886.2	4270472	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	636926.2	4270472	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	636966.2	4270472	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	637006.2	4270472	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	637046.2	4270472	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	637086.2	4270472	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	637126.2	4270472	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	637166.2	4270472	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	637206.2	4270472	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	637646.2	4270472	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	637686.2	4270472	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	637726.2	4270472	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	637766.2	4270472	3.52E-08	1YrCancerD	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	637886.2	4270472	2.93E-08	1YrCancerD	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	637926.2	4270472	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	637966.2	4270472	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	638006.2	4270472	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	638046.2	4270472	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	638086.2	4270472	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
909	ALL	638126.2	4270472	3.50E-08	1YrCancerD	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	638166.2	4270472	5.91E-08	1YrCancerD	5.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	638326.2	4270472	9.39E-08	1YrCancerD	9.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	638366.2	4270472	6.63E-08	1YrCancerD	6.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	638406.2	4270472	5.17E-08	1YrCancerD	5.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	638446.2	4270472	4.24E-08	1YrCancerD	4.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	638486.2	4270472	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	638526.2	4270472	2.84E-08	1YrCancerD	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	638566.2	4270472	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	635966.2	4270512	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	636006.2	4270512	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	636046.2	4270512	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	636086.2	4270512	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	636126.2	4270512	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	636166.2	4270512	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	636206.2	4270512	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	636286.2	4270512	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	636326.2	4270512	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	636366.2	4270512	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	636406.2	4270512	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	636526.2	4270512	3.50E-08	1YrCancerD	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	636566.2	4270512	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	636606.2	4270512	4.74E-08	1YrCancerD	4.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	636646.2	4270512	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	636686.2	4270512	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	636726.2	4270512	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	636766.2	4270512	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	636806.2	4270512	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	636846.2	4270512	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	636886.2	4270512	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	636926.2	4270512	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

940	ALL	636966.2	4270512	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	637006.2	4270512	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	637046.2	4270512	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	637086.2	4270512	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	637126.2	4270512	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	637166.2	4270512	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	637206.2	4270512	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	637646.2	4270512	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	637686.2	4270512	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	637726.2	4270512	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	637766.2	4270512	2.55E-08	1YrCancerD	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	637806.2	4270512	4.87E-08	1YrCancerD	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	637926.2	4270512	2.60E-08	1YrCancerD	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	637966.2	4270512	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	638006.2	4270512	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	638046.2	4270512	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	638086.2	4270512	3.42E-08	1YrCancerD	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	638126.2	4270512	6.91E-08	1YrCancerD	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	638286.2	4270512	6.49E-08	1YrCancerD	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	638326.2	4270512	5.04E-08	1YrCancerD	5.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	638366.2	4270512	4.14E-08	1YrCancerD	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	638406.2	4270512	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	638446.2	4270512	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	638486.2	4270512	2.61E-08	1YrCancerD	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	638526.2	4270512	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	638566.2	4270512	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	634406.2	4270552	4.03E-09	1YrCancerD	4.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	635966.2	4270552	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	636046.2	4270552	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	636086.2	4270552	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	636126.2	4270552	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	636166.2	4270552	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	636206.2	4270552	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	636486.2	4270552	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	636526.2	4270552	3.38E-08	1YrCancerD	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	636606.2	4270552	5.03E-08	1YrCancerD	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	636646.2	4270552	3.03E-08	1YrCancerD	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	636686.2	4270552	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	636726.2	4270552	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	636766.2	4270552	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	636806.2	4270552	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	636846.2	4270552	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	636886.2	4270552	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	636926.2	4270552	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	636966.2	4270552	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	637006.2	4270552	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	637046.2	4270552	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	637086.2	4270552	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	637126.2	4270552	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	637166.2	4270552	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	637206.2	4270552	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	637646.2	4270552	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	637686.2	4270552	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	637726.2	4270552	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	637766.2	4270552	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	637806.2	4270552	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	637846.2	4270552	8.09E-08	1YrCancerD	8.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	638046.2	4270552	3.13E-08	1YrCancerD	3.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	638086.2	4270552	6.20E-08	1YrCancerD	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	638326.2	4270552	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1000	ALL	638366.2	4270552	3.05E-08	1YrCancerD	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	638406.2	4270552	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	638446.2	4270552	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	638486.2	4270552	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	638526.2	4270552	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	638566.2	4270552	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	635966.2	4270592	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	636006.2	4270592	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	636046.2	4270592	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	636126.2	4270592	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	636166.2	4270592	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	636206.2	4270592	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	636286.2	4270592	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	636326.2	4270592	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	636366.2	4270592	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	636406.2	4270592	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	636486.2	4270592	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	636526.2	4270592	3.06E-08	1YrCancerD	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	636606.2	4270592	5.94E-08	1YrCancerD	5.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	636646.2	4270592	3.26E-08	1YrCancerD	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	636686.2	4270592	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	636726.2	4270592	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	636766.2	4270592	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	636806.2	4270592	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	636846.2	4270592	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	636886.2	4270592	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	636926.2	4270592	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	636966.2	4270592	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	637006.2	4270592	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	637046.2	4270592	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	637086.2	4270592	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	637126.2	4270592	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	637166.2	4270592	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	637206.2	4270592	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1034	ALL	637246.2	4270592	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	637646.2	4270592	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	637686.2	4270592	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	637726.2	4270592	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	637766.2	4270592	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	637806.2	4270592	2.35E-08	1YrCancerD	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	637846.2	4270592	4.03E-08	1YrCancerD	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	638326.2	4270592	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	638366.2	4270592	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	638406.2	4270592	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	638446.2	4270592	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	638486.2	4270592	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	638526.2	4270592	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	638566.2	4270592	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	635966.2	4270632	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	636006.2	4270632	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	636046.2	4270632	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	636486.2	4270632	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	636526.2	4270632	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	636566.2	4270632	6.41E-08	1YrCancerD	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	636606.2	4270632	8.83E-08	1YrCancerD	8.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	636646.2	4270632	3.81E-08	1YrCancerD	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	636686.2	4270632	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	636726.2	4270632	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	636766.2	4270632	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	636806.2	4270632	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	636846.2	4270632	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	636886.2	4270632	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	636926.2	4270632	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	636966.2	4270632	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	637006.2	4270632	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	637046.2	4270632	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	637086.2	4270632	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	637126.2	4270632	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	637166.2	4270632	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	637206.2	4270632	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	637246.2	4270632	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	637686.2	4270632	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	637726.2	4270632	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	637766.2	4270632	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	637806.2	4270632	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	637846.2	4270632	2.73E-08	1YrCancerD	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	637886.2	4270632	5.11E-08	1YrCancerD	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	638366.2	4270632	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	638406.2	4270632	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	638446.2	4270632	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	638486.2	4270632	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	638526.2	4270632	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	638566.2	4270632	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	635966.2	4270672	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	636006.2	4270672	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	636046.2	4270672	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	636126.2	4270672	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	636166.2	4270672	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	636206.2	4270672	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	636246.2	4270672	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	636486.2	4270672	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1091	ALL	636526.2	4270672	2.37E-08	1YrCancerD	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	636566.2	4270672	4.03E-08	1YrCancerD	4.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	636646.2	4270672	5.37E-08	1YrCancerD	5.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	636686.2	4270672	3.23E-08	1YrCancerD	3.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	636726.2	4270672	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	636766.2	4270672	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	636806.2	4270672	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	636846.2	4270672	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	636886.2	4270672	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	636926.2	4270672	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	636966.2	4270672	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	637006.2	4270672	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	637046.2	4270672	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	637086.2	4270672	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	637126.2	4270672	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	637166.2	4270672	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	637206.2	4270672	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	637246.2	4270672	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	637686.2	4270672	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	637726.2	4270672	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	637766.2	4270672	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	637806.2	4270672	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	637846.2	4270672	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	637886.2	4270672	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	637926.2	4270672	6.10E-08	1YrCancerD	6.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	638446.2	4270672	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	638486.2	4270672	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	638526.2	4270672	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	638566.2	4270672	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	635966.2	4270712	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	636006.2	4270712	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	636046.2	4270712	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	636126.2	4270712	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	636166.2	4270712	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	636206.2	4270712	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	636246.2	4270712	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	636486.2	4270712	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1128	ALL	636526.2	4270712	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	636566.2	4270712	2.93E-08	1YrCancerD	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	636606.2	4270712	6.11E-08	1YrCancerD	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	636686.2	4270712	4.61E-08	1YrCancerD	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	636726.2	4270712	2.95E-08	1YrCancerD	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	636766.2	4270712	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	636806.2	4270712	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	636846.2	4270712	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	636886.2	4270712	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	636926.2	4270712	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	636966.2	4270712	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	637006.2	4270712	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	637046.2	4270712	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	637086.2	4270712	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	637126.2	4270712	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	637166.2	4270712	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	637206.2	4270712	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	637246.2	4270712	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	637686.2	4270712	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	637726.2	4270712	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	637766.2	4270712	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	637806.2	4270712	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	637846.2	4270712	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	638446.2	4270712	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	638486.2	4270712	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	638526.2	4270712	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	638566.2	4270712	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	635366.2	4270752	9.70E-09	1YrCancerD	9.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	635406.2	4270752	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	635446.2	4270752	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	635486.2	4270752	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	635526.2	4270752	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	635566.2	4270752	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	635606.2	4270752	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	635646.2	4270752	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	635686.2	4270752	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	635726.2	4270752	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	635766.2	4270752	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	635806.2	4270752	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	635846.2	4270752	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	635926.2	4270752	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	635966.2	4270752	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	636006.2	4270752	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	636046.2	4270752	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	636126.2	4270752	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	636166.2	4270752	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	636206.2	4270752	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	636246.2	4270752	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	636446.2	4270752	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	636486.2	4270752	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	636526.2	4270752	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	636566.2	4270752	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	636606.2	4270752	3.45E-08	1YrCancerD	3.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	636646.2	4270752	7.40E-08	1YrCancerD	7.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1182	ALL	636686.2	4270752	1.16E-07	1YrCancerD	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	636726.2	4270752	4.14E-08	1YrCancerD	4.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	636766.2	4270752	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	636806.2	4270752	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	636846.2	4270752	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	636886.2	4270752	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	636926.2	4270752	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	636966.2	4270752	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	637006.2	4270752	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	637046.2	4270752	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	637086.2	4270752	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	637126.2	4270752	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	637166.2	4270752	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	637206.2	4270752	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	637246.2	4270752	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	635246.2	4270792	9.21E-09	1YrCancerD	9.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	635286.2	4270792	9.53E-09	1YrCancerD	9.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	635326.2	4270792	9.87E-09	1YrCancerD	9.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	635366.2	4270792	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	635406.2	4270792	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	635446.2	4270792	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	635486.2	4270792	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	635526.2	4270792	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	635566.2	4270792	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	635606.2	4270792	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	635646.2	4270792	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	635686.2	4270792	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	635726.2	4270792	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	635806.2	4270792	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	635846.2	4270792	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	635886.2	4270792	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	635926.2	4270792	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	635966.2	4270792	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	636006.2	4270792	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	636126.2	4270792	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	636166.2	4270792	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	636206.2	4270792	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	636446.2	4270792	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	636486.2	4270792	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	636526.2	4270792	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1222	ALL	636566.2	4270792	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	636606.2	4270792	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	636646.2	4270792	3.83E-08	1YrCancerD	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	636686.2	4270792	8.85E-08	1YrCancerD	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	636726.2	4270792	8.77E-08	1YrCancerD	8.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	636766.2	4270792	3.73E-08	1YrCancerD	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	636806.2	4270792	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	636846.2	4270792	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	636886.2	4270792	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	636926.2	4270792	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	636966.2	4270792	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	637006.2	4270792	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	637046.2	4270792	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	637086.2	4270792	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	637126.2	4270792	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	637166.2	4270792	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	637206.2	4270792	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	637246.2	4270792	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	638086.2	4270792	2.76E-08	1YrCancerD	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	638126.2	4270792	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	638166.2	4270792	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	638206.2	4270792	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	638246.2	4270792	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	638286.2	4270792	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	638326.2	4270792	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	638366.2	4270792	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	638406.2	4270792	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	638446.2	4270792	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	638486.2	4270792	9.88E-09	1YrCancerD	9.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	638526.2	4270792	9.29E-09	1YrCancerD	9.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	638566.2	4270792	8.77E-09	1YrCancerD	8.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	635126.2	4270832	8.78E-09	1YrCancerD	8.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	635166.2	4270832	9.06E-09	1YrCancerD	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	635206.2	4270832	9.36E-09	1YrCancerD	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	635246.2	4270832	9.69E-09	1YrCancerD	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	635286.2	4270832	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	635326.2	4270832	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	635366.2	4270832	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	635406.2	4270832	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	635446.2	4270832	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	635486.2	4270832	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	635526.2	4270832	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	635566.2	4270832	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	635606.2	4270832	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	635686.2	4270832	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	635726.2	4270832	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	635766.2	4270832	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	635806.2	4270832	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	635846.2	4270832	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	635886.2	4270832	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	635966.2	4270832	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1273	ALL	636006.2	4270832	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	636046.2	4270832	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	636086.2	4270832	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	636126.2	4270832	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	636166.2	4270832	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	636206.2	4270832	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	636446.2	4270832	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	636486.2	4270832	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	636526.2	4270832	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	636566.2	4270832	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	636606.2	4270832	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	636646.2	4270832	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	636686.2	4270832	4.19E-08	1YrCancerD	4.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	636766.2	4270832	6.94E-08	1YrCancerD	6.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	636806.2	4270832	3.41E-08	1YrCancerD	3.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	636846.2	4270832	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	636886.2	4270832	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	636926.2	4270832	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	636966.2	4270832	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	637006.2	4270832	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	637046.2	4270832	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	637086.2	4270832	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	637126.2	4270832	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	637166.2	4270832	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	637206.2	4270832	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	637246.2	4270832	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	637286.2	4270832	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	638086.2	4270832	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	638126.2	4270832	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	638166.2	4270832	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	638206.2	4270832	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	638246.2	4270832	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	638286.2	4270832	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	638326.2	4270832	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	638366.2	4270832	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	638406.2	4270832	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	638446.2	4270832	9.72E-09	1YrCancerD	9.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	638486.2	4270832	9.15E-09	1YrCancerD	9.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	638526.2	4270832	8.65E-09	1YrCancerD	8.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	638566.2	4270832	8.20E-09	1YrCancerD	8.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	635126.2	4270872	9.21E-09	1YrCancerD	9.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	635166.2	4270872	9.52E-09	1YrCancerD	9.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	635206.2	4270872	9.86E-09	1YrCancerD	9.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1316	ALL	635246.2	4270872	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	635286.2	4270872	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	635326.2	4270872	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	635366.2	4270872	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	635406.2	4270872	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	635446.2	4270872	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	635486.2	4270872	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	635526.2	4270872	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	635566.2	4270872	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	635646.2	4270872	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	635686.2	4270872	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	635726.2	4270872	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	635766.2	4270872	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	635846.2	4270872	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	635886.2	4270872	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	635926.2	4270872	1.88E-08	1YrCancerD	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	635966.2	4270872	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	636006.2	4270872	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	636046.2	4270872	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	636086.2	4270872	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	636126.2	4270872	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	636166.2	4270872	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	636206.2	4270872	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	636246.2	4270872	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	636286.2	4270872	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	636406.2	4270872	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	636446.2	4270872	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	636486.2	4270872	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	636526.2	4270872	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	636566.2	4270872	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	636606.2	4270872	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	636646.2	4270872	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	636686.2	4270872	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	636726.2	4270872	4.68E-08	1YrCancerD	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	636806.2	4270872	5.73E-08	1YrCancerD	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	636846.2	4270872	3.14E-08	1YrCancerD	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	636886.2	4270872	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	636926.2	4270872	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	636966.2	4270872	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	637006.2	4270872	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	637046.2	4270872	1.40E-08	1YrCancerD	1.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	637086.2	4270872	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	637126.2	4270872	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	637166.2	4270872	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	637206.2	4270872	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	637246.2	4270872	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	637286.2	4270872	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	638086.2	4270872	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1364	ALL	638126.2	4270872	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	638166.2	4270872	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	638206.2	4270872	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	638246.2	4270872	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	638286.2	4270872	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	638326.2	4270872	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	638366.2	4270872	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	638406.2	4270872	9.60E-09	1YrCancerD	9.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	638446.2	4270872	9.03E-09	1YrCancerD	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	638486.2	4270872	8.54E-09	1YrCancerD	8.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	638526.2	4270872	8.10E-09	1YrCancerD	8.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	638566.2	4270872	7.71E-09	1YrCancerD	7.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	635166.2	4270912	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	635206.2	4270912	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	635246.2	4270912	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	635286.2	4270912	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	635326.2	4270912	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	635366.2	4270912	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	635406.2	4270912	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	635446.2	4270912	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	635486.2	4270912	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	635526.2	4270912	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	635766.2	4270912	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	635846.2	4270912	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	635886.2	4270912	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	635926.2	4270912	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	635966.2	4270912	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	636006.2	4270912	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	636046.2	4270912	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	636086.2	4270912	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	636166.2	4270912	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	636206.2	4270912	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	636246.2	4270912	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	636286.2	4270912	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	636406.2	4270912	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	636446.2	4270912	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	636486.2	4270912	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	636526.2	4270912	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	636566.2	4270912	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	636606.2	4270912	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	636646.2	4270912	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	636686.2	4270912	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	636726.2	4270912	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	636766.2	4270912	5.36E-08	1YrCancerD	5.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	636846.2	4270912	4.90E-08	1YrCancerD	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	636886.2	4270912	2.92E-08	1YrCancerD	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1410	ALL	636926.2	4270912	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	636966.2	4270912	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	637006.2	4270912	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	637046.2	4270912	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	637086.2	4270912	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	637126.2	4270912	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	637166.2	4270912	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	637206.2	4270912	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	637246.2	4270912	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	637286.2	4270912	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	638086.2	4270912	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1421	ALL	638126.2	4270912	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1422	ALL	638166.2	4270912	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1423	ALL	638206.2	4270912	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1424	ALL	638246.2	4270912	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1425	ALL	638286.2	4270912	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1426	ALL	638326.2	4270912	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1427	ALL	638366.2	4270912	9.52E-09	1YrCancerD	9.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1428	ALL	638406.2	4270912	8.95E-09	1YrCancerD	8.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1429	ALL	638446.2	4270912	8.46E-09	1YrCancerD	8.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1430	ALL	638486.2	4270912	8.02E-09	1YrCancerD	8.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1431	ALL	638526.2	4270912	7.64E-09	1YrCancerD	7.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1432	ALL	638566.2	4270912	7.29E-09	1YrCancerD	7.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1433	ALL	635166.2	4270952	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1434	ALL	635206.2	4270952	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1435	ALL	635246.2	4270952	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1436	ALL	635286.2	4270952	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1437	ALL	635326.2	4270952	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1438	ALL	635366.2	4270952	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1439	ALL	635406.2	4270952	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1440	ALL	635446.2	4270952	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1441	ALL	635486.2	4270952	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1442	ALL	635686.2	4270952	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1443	ALL	635726.2	4270952	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1444	ALL	635766.2	4270952	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1445	ALL	635846.2	4270952	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1446	ALL	635886.2	4270952	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1447	ALL	635926.2	4270952	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1448	ALL	635966.2	4270952	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1449	ALL	636006.2	4270952	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1450	ALL	636046.2	4270952	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1451	ALL	636086.2	4270952	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1452	ALL	636126.2	4270952	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1453	ALL	636166.2	4270952	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1454	ALL	636206.2	4270952	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1455	ALL	636246.2	4270952	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1456	ALL	636366.2	4270952	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1457	ALL	636406.2	4270952	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1458	ALL	636446.2	4270952	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1459	ALL	636486.2	4270952	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1460	ALL	636526.2	4270952	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1461	ALL	636566.2	4270952	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1462	ALL	636606.2	4270952	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1463	ALL	636646.2	4270952	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1464	ALL	636686.2	4270952	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1465	ALL	636726.2	4270952	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1466	ALL	636766.2	4270952	3.35E-08	1YrCancerD	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1467	ALL	636806.2	4270952	6.32E-08	1YrCancerD	6.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1468	ALL	636886.2	4270952	4.32E-08	1YrCancerD	4.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1469	ALL	636926.2	4270952	2.75E-08	1YrCancerD	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1470	ALL	636966.2	4270952	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1471	ALL	637006.2	4270952	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1472	ALL	637046.2	4270952	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1473	ALL	637086.2	4270952	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1474	ALL	637126.2	4270952	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1475	ALL	637166.2	4270952	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1476	ALL	637206.2	4270952	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1477	ALL	637246.2	4270952	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1478	ALL	637286.2	4270952	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1479	ALL	638086.2	4270952	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1480	ALL	638126.2	4270952	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1481	ALL	638166.2	4270952	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1482	ALL	638206.2	4270952	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1483	ALL	638246.2	4270952	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1484	ALL	638286.2	4270952	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1485	ALL	638326.2	4270952	9.49E-09	1YrCancerD	9.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1486	ALL	638366.2	4270952	8.92E-09	1YrCancerD	8.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1487	ALL	638406.2	4270952	8.41E-09	1YrCancerD	8.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1488	ALL	638446.2	4270952	7.97E-09	1YrCancerD	7.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1489	ALL	638486.2	4270952	7.58E-09	1YrCancerD	7.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1490	ALL	638526.2	4270952	7.23E-09	1YrCancerD	7.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1491	ALL	638566.2	4270952	6.92E-09	1YrCancerD	6.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1492	ALL	634846.2	4270992	8.33E-09	1YrCancerD	8.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1493	ALL	634886.2	4270992	8.68E-09	1YrCancerD	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1494	ALL	634926.2	4270992	9.02E-09	1YrCancerD	9.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1495	ALL	634966.2	4270992	9.35E-09	1YrCancerD	9.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1496	ALL	635166.2	4270992	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1497	ALL	635206.2	4270992	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1498	ALL	635246.2	4270992	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1499	ALL	635286.2	4270992	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1500	ALL	635326.2	4270992	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1501	ALL	635366.2	4270992	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1502	ALL	635406.2	4270992	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1503	ALL	635446.2	4270992	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1504	ALL	635486.2	4270992	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1505	ALL	635526.2	4270992	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1506	ALL	635646.2	4270992	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1507	ALL	635686.2	4270992	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1508	ALL	635726.2	4270992	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1509	ALL	635766.2	4270992	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1510	ALL	635806.2	4270992	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1511	ALL	635846.2	4270992	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1512	ALL	635886.2	4270992	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1513	ALL	635926.2	4270992	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1514	ALL	635966.2	4270992	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1515	ALL	636006.2	4270992	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1516	ALL	636046.2	4270992	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1517	ALL	636086.2	4270992	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1518	ALL	636126.2	4270992	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1519	ALL	636206.2	4270992	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1520	ALL	636246.2	4270992	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1521	ALL	636366.2	4270992	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1522	ALL	636406.2	4270992	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1523	ALL	636446.2	4270992	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1524	ALL	636486.2	4270992	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1525	ALL	636526.2	4270992	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1526	ALL	636566.2	4270992	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1527	ALL	636606.2	4270992	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1528	ALL	636646.2	4270992	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1529	ALL	636686.2	4270992	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1530	ALL	636726.2	4270992	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1531	ALL	636766.2	4270992	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1532	ALL	636806.2	4270992	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1533	ALL	636846.2	4270992	7.71E-08	1YrCancerD	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1534	ALL	636886.2	4270992	1.04E-07	1YrCancerD	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1535	ALL	636926.2	4270992	3.91E-08	1YrCancerD	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1536	ALL	636966.2	4270992	2.61E-08	1YrCancerD	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1537	ALL	637006.2	4270992	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1538	ALL	637046.2	4270992	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1539	ALL	637086.2	4270992	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1540	ALL	637126.2	4270992	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1541	ALL	637166.2	4270992	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1542	ALL	637206.2	4270992	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1543	ALL	637246.2	4270992	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1544	ALL	637286.2	4270992	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1545	ALL	638086.2	4270992	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1546	ALL	638126.2	4270992	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1547	ALL	638166.2	4270992	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1548	ALL	638206.2	4270992	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1549	ALL	638246.2	4270992	9.96E-09	1YrCancerD	9.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1550	ALL	638286.2	4270992	9.41E-09	1YrCancerD	9.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1551	ALL	638326.2	4270992	8.88E-09	1YrCancerD	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1552	ALL	638366.2	4270992	8.39E-09	1YrCancerD	8.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1553	ALL	638406.2	4270992	7.94E-09	1YrCancerD	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1554	ALL	638446.2	4270992	7.55E-09	1YrCancerD	7.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1555	ALL	638486.2	4270992	7.20E-09	1YrCancerD	7.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1556	ALL	638526.2	4270992	6.88E-09	1YrCancerD	6.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1557	ALL	638566.2	4270992	6.59E-09	1YrCancerD	6.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1558	ALL	634806.2	4271032	8.30E-09	1YrCancerD	8.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1559	ALL	634846.2	4271032	8.68E-09	1YrCancerD	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1560	ALL	634886.2	4271032	9.06E-09	1YrCancerD	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1561	ALL	634926.2	4271032	9.44E-09	1YrCancerD	9.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1562	ALL	634966.2	4271032	9.81E-09	1YrCancerD	9.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1563	ALL	635006.2	4271032	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1564	ALL	635046.2	4271032	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1565	ALL	635086.2	4271032	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1566	ALL	635166.2	4271032	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1567	ALL	635206.2	4271032	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1568	ALL	635246.2	4271032	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1569	ALL	635286.2	4271032	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1570	ALL	635326.2	4271032	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1571	ALL	635366.2	4271032	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1572	ALL	635406.2	4271032	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1573	ALL	635446.2	4271032	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1574	ALL	635486.2	4271032	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1575	ALL	635526.2	4271032	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1576	ALL	635566.2	4271032	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1577	ALL	635606.2	4271032	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1578	ALL	635646.2	4271032	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1579	ALL	635686.2	4271032	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1580	ALL	635726.2	4271032	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1581	ALL	635766.2	4271032	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1582	ALL	635806.2	4271032	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1583	ALL	635846.2	4271032	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1584	ALL	635886.2	4271032	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1585	ALL	635926.2	4271032	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1586	ALL	635966.2	4271032	2.13E-08	1YrCancerD	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1587	ALL	636006.2	4271032	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1588	ALL	636046.2	4271032	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1589	ALL	636126.2	4271032	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1590	ALL	636166.2	4271032	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1591	ALL	636206.2	4271032	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1592	ALL	636326.2	4271032	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1593	ALL	636366.2	4271032	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1594	ALL	636406.2	4271032	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1595	ALL	636446.2	4271032	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1596	ALL	636486.2	4271032	1.47E-08	1YrCancerD	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1597	ALL	636526.2	4271032	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1598	ALL	636566.2	4271032	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1599	ALL	636606.2	4271032	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1600	ALL	636646.2	4271032	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1601	ALL	636686.2	4271032	1.72E-08	1YrCancerD	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1602	ALL	636726.2	4271032	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1603	ALL	636766.2	4271032	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1604	ALL	636806.2	4271032	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1605	ALL	636846.2	4271032	3.96E-08	1YrCancerD	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1606	ALL	636886.2	4271032	9.68E-08	1YrCancerD	9.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1607	ALL	636926.2	4271032	8.05E-08	1YrCancerD	8.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1608	ALL	636966.2	4271032	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1609	ALL	637006.2	4271032	2.50E-08	1YrCancerD	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1610	ALL	637046.2	4271032	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1611	ALL	637086.2	4271032	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1612	ALL	637126.2	4271032	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1613	ALL	637166.2	4271032	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1614	ALL	637206.2	4271032	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1615	ALL	637246.2	4271032	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1616	ALL	637286.2	4271032	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1617	ALL	637846.2	4271032	9.18E-09	1YrCancerD	9.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1618	ALL	637886.2	4271032	9.48E-09	1YrCancerD	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1619	ALL	637926.2	4271032	9.70E-09	1YrCancerD	9.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1620	ALL	637966.2	4271032	9.83E-09	1YrCancerD	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1621	ALL	638086.2	4271032	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1622	ALL	638126.2	4271032	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1623	ALL	638166.2	4271032	9.89E-09	1YrCancerD	9.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1624	ALL	638206.2	4271032	9.62E-09	1YrCancerD	9.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1625	ALL	638246.2	4271032	9.23E-09	1YrCancerD	9.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1626	ALL	638286.2	4271032	8.79E-09	1YrCancerD	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1627	ALL	638326.2	4271032	8.34E-09	1YrCancerD	8.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1628	ALL	638366.2	4271032	7.91E-09	1YrCancerD	7.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1629	ALL	638406.2	4271032	7.53E-09	1YrCancerD	7.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1630	ALL	638446.2	4271032	7.18E-09	1YrCancerD	7.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1631	ALL	638486.2	4271032	6.86E-09	1YrCancerD	6.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1632	ALL	638526.2	4271032	6.57E-09	1YrCancerD	6.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1633	ALL	638566.2	4271032	6.30E-09	1YrCancerD	6.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1634	ALL	634766.2	4271072	8.24E-09	1YrCancerD	8.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1635	ALL	634806.2	4271072	8.65E-09	1YrCancerD	8.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1636	ALL	634846.2	4271072	9.06E-09	1YrCancerD	9.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1637	ALL	634886.2	4271072	9.48E-09	1YrCancerD	9.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1638	ALL	634926.2	4271072	9.90E-09	1YrCancerD	9.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1639	ALL	634966.2	4271072	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1640	ALL	635006.2	4271072	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1641	ALL	635046.2	4271072	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1642	ALL	635086.2	4271072	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1643	ALL	635126.2	4271072	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1644	ALL	635166.2	4271072	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1645	ALL	635206.2	4271072	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1646	ALL	635246.2	4271072	1.38E-08	1YrCancerD	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1647	ALL	635286.2	4271072	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1648	ALL	635326.2	4271072	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1649	ALL	635366.2	4271072	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1650	ALL	635406.2	4271072	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1651	ALL	635446.2	4271072	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1652	ALL	635486.2	4271072	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1653	ALL	635526.2	4271072	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1654	ALL	635566.2	4271072	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1655	ALL	635606.2	4271072	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1656	ALL	635646.2	4271072	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1657	ALL	635686.2	4271072	2.51E-08	1YrCancerD	2.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1658	ALL	635726.2	4271072	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1659	ALL	635806.2	4271072	2.59E-08	1YrCancerD	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1660	ALL	635886.2	4271072	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1661	ALL	635926.2	4271072	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1662	ALL	635966.2	4271072	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1663	ALL	636046.2	4271072	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1664	ALL	636086.2	4271072	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1665	ALL	636126.2	4271072	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1666	ALL	636166.2	4271072	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1667	ALL	636286.2	4271072	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1668	ALL	636326.2	4271072	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1669	ALL	636366.2	4271072	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1670	ALL	636406.2	4271072	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1671	ALL	636446.2	4271072	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1672	ALL	636486.2	4271072	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1673	ALL	636526.2	4271072	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1674	ALL	636566.2	4271072	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1675	ALL	636606.2	4271072	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1676	ALL	636646.2	4271072	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1677	ALL	636686.2	4271072	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1678	ALL	636726.2	4271072	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1679	ALL	636766.2	4271072	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1680	ALL	636806.2	4271072	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1681	ALL	636846.2	4271072	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1682	ALL	636886.2	4271072	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1683	ALL	636966.2	4271072	6.75E-08	1YrCancerD	6.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1684	ALL	637006.2	4271072	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1685	ALL	637046.2	4271072	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1686	ALL	637086.2	4271072	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1687	ALL	637126.2	4271072	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1688	ALL	637166.2	4271072	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1689	ALL	637206.2	4271072	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1690	ALL	637246.2	4271072	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1691	ALL	637286.2	4271072	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1692	ALL	637846.2	4271072	8.73E-09	1YrCancerD	8.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1693	ALL	637886.2	4271072	8.91E-09	1YrCancerD	8.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1694	ALL	637926.2	4271072	9.03E-09	1YrCancerD	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1695	ALL	637966.2	4271072	9.10E-09	1YrCancerD	9.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1696	ALL	638086.2	4271072	9.21E-09	1YrCancerD	9.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1697	ALL	638126.2	4271072	9.18E-09	1YrCancerD	9.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1698	ALL	638166.2	4271072	9.07E-09	1YrCancerD	9.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1699	ALL	638206.2	4271072	8.88E-09	1YrCancerD	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1700	ALL	638246.2	4271072	8.59E-09	1YrCancerD	8.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1701	ALL	638286.2	4271072	8.23E-09	1YrCancerD	8.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1702	ALL	638326.2	4271072	7.86E-09	1YrCancerD	7.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1703	ALL	638366.2	4271072	7.49E-09	1YrCancerD	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1704	ALL	638406.2	4271072	7.15E-09	1YrCancerD	7.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1705	ALL	638446.2	4271072	6.84E-09	1YrCancerD	6.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1706	ALL	638486.2	4271072	6.56E-09	1YrCancerD	6.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1707	ALL	638526.2	4271072	6.29E-09	1YrCancerD	6.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1708	ALL	638566.2	4271072	6.05E-09	1YrCancerD	6.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1709	ALL	634726.2	4271112	8.17E-09	1YrCancerD	8.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1710	ALL	634766.2	4271112	8.58E-09	1YrCancerD	8.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1711	ALL	634806.2	4271112	9.01E-09	1YrCancerD	9.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1712	ALL	634846.2	4271112	9.47E-09	1YrCancerD	9.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1713	ALL	634886.2	4271112	9.93E-09	1YrCancerD	9.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1714	ALL	634926.2	4271112	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1715	ALL	634966.2	4271112	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1716	ALL	635006.2	4271112	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1717	ALL	635046.2	4271112	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1718	ALL	635086.2	4271112	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1719	ALL	635126.2	4271112	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1720	ALL	635166.2	4271112	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1721	ALL	635246.2	4271112	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1722	ALL	635286.2	4271112	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1723	ALL	635326.2	4271112	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1724	ALL	635366.2	4271112	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1725	ALL	635406.2	4271112	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1726	ALL	635446.2	4271112	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1727	ALL	635486.2	4271112	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1728	ALL	635526.2	4271112	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1729	ALL	635566.2	4271112	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1730	ALL	635606.2	4271112	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1731	ALL	635646.2	4271112	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1732	ALL	635686.2	4271112	2.73E-08	1YrCancerD	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1733	ALL	635726.2	4271112	2.79E-08	1YrCancerD	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1734	ALL	635766.2	4271112	2.81E-08	1YrCancerD	2.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1735	ALL	635806.2	4271112	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1736	ALL	635846.2	4271112	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1737	ALL	635886.2	4271112	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1738	ALL	635926.2	4271112	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1739	ALL	636006.2	4271112	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1740	ALL	636046.2	4271112	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1741	ALL	636086.2	4271112	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1742	ALL	636126.2	4271112	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1743	ALL	636246.2	4271112	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1744	ALL	636286.2	4271112	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1745	ALL	636326.2	4271112	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1746	ALL	636366.2	4271112	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1747	ALL	636406.2	4271112	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1748	ALL	636446.2	4271112	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1749	ALL	636486.2	4271112	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1750	ALL	636526.2	4271112	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1751	ALL	636566.2	4271112	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1752	ALL	636606.2	4271112	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1753	ALL	636646.2	4271112	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1754	ALL	636686.2	4271112	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1755	ALL	636726.2	4271112	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1756	ALL	636766.2	4271112	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1757	ALL	636806.2	4271112	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1758	ALL	636846.2	4271112	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1759	ALL	636886.2	4271112	3.01E-08	1YrCancerD	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1760	ALL	636926.2	4271112	4.78E-08	1YrCancerD	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1761	ALL	637006.2	4271112	6.01E-08	1YrCancerD	6.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1762	ALL	637046.2	4271112	3.12E-08	1YrCancerD	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1763	ALL	637086.2	4271112	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1764	ALL	637126.2	4271112	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1765	ALL	637166.2	4271112	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1766	ALL	637206.2	4271112	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1767	ALL	637246.2	4271112	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1768	ALL	637286.2	4271112	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1769	ALL	637886.2	4271112	8.42E-09	1YrCancerD	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1770	ALL	637926.2	4271112	8.48E-09	1YrCancerD	8.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1771	ALL	637966.2	4271112	8.50E-09	1YrCancerD	8.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1772	ALL	638086.2	4271112	8.53E-09	1YrCancerD	8.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1773	ALL	638126.2	4271112	8.49E-09	1YrCancerD	8.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1774	ALL	638166.2	4271112	8.39E-09	1YrCancerD	8.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1775	ALL	638206.2	4271112	8.23E-09	1YrCancerD	8.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1776	ALL	638246.2	4271112	8.01E-09	1YrCancerD	8.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1777	ALL	638286.2	4271112	7.73E-09	1YrCancerD	7.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1778	ALL	638326.2	4271112	7.42E-09	1YrCancerD	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1779	ALL	638366.2	4271112	7.11E-09	1YrCancerD	7.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1780	ALL	638406.2	4271112	6.81E-09	1YrCancerD	6.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1781	ALL	638446.2	4271112	6.54E-09	1YrCancerD	6.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1782	ALL	638486.2	4271112	6.28E-09	1YrCancerD	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1783	ALL	638526.2	4271112	6.04E-09	1YrCancerD	6.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1784	ALL	638566.2	4271112	5.81E-09	1YrCancerD	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1785	ALL	634726.2	4271152	8.49E-09	1YrCancerD	8.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1786	ALL	634766.2	4271152	8.94E-09	1YrCancerD	8.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1787	ALL	634806.2	4271152	9.41E-09	1YrCancerD	9.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1788	ALL	634846.2	4271152	9.91E-09	1YrCancerD	9.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1789	ALL	634886.2	4271152	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1790	ALL	634926.2	4271152	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1791	ALL	634966.2	4271152	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1792	ALL	635006.2	4271152	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1793	ALL	635046.2	4271152	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1794	ALL	635086.2	4271152	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1795	ALL	635126.2	4271152	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1796	ALL	635166.2	4271152	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1797	ALL	635286.2	4271152	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1798	ALL	635326.2	4271152	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1799	ALL	635366.2	4271152	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1800	ALL	635406.2	4271152	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1801	ALL	635446.2	4271152	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1802	ALL	635486.2	4271152	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1803	ALL	635526.2	4271152	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1804	ALL	635566.2	4271152	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1805	ALL	635606.2	4271152	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1806	ALL	635646.2	4271152	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1807	ALL	635686.2	4271152	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1808	ALL	635726.2	4271152	3.03E-08	1YrCancerD	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1809	ALL	635766.2	4271152	3.03E-08	1YrCancerD	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1810	ALL	635806.2	4271152	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1811	ALL	635846.2	4271152	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1812	ALL	635886.2	4271152	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1813	ALL	635926.2	4271152	2.54E-08	1YrCancerD	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1814	ALL	635966.2	4271152	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1815	ALL	636006.2	4271152	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1816	ALL	636046.2	4271152	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1817	ALL	636206.2	4271152	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1818	ALL	636246.2	4271152	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1819	ALL	636286.2	4271152	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1820	ALL	636326.2	4271152	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1821	ALL	636366.2	4271152	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1822	ALL	636406.2	4271152	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1823	ALL	636446.2	4271152	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1824	ALL	636486.2	4271152	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1825	ALL	636526.2	4271152	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1826	ALL	636566.2	4271152	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1827	ALL	636606.2	4271152	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1828	ALL	636646.2	4271152	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1829	ALL	636686.2	4271152	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1830	ALL	636726.2	4271152	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1831	ALL	636766.2	4271152	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1832	ALL	636806.2	4271152	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1833	ALL	636846.2	4271152	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1834	ALL	636886.2	4271152	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1835	ALL	636926.2	4271152	3.17E-08	1YrCancerD	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1836	ALL	636966.2	4271152	5.21E-08	1YrCancerD	5.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1837	ALL	637046.2	4271152	4.82E-08	1YrCancerD	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1838	ALL	637086.2	4271152	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1839	ALL	637126.2	4271152	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1840	ALL	637166.2	4271152	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1841	ALL	637206.2	4271152	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1842	ALL	637246.2	4271152	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1843	ALL	637286.2	4271152	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1844	ALL	637886.2	4271152	8.00E-09	1YrCancerD	8.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1845	ALL	637926.2	4271152	8.01E-09	1YrCancerD	8.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1846	ALL	637966.2	4271152	8.01E-09	1YrCancerD	8.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1847	ALL	634686.2	4271192	8.38E-09	1YrCancerD	8.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1848	ALL	634726.2	4271192	8.83E-09	1YrCancerD	8.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1849	ALL	634766.2	4271192	9.32E-09	1YrCancerD	9.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1850	ALL	634806.2	4271192	9.84E-09	1YrCancerD	9.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1851	ALL	634846.2	4271192	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1852	ALL	634886.2	4271192	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1853	ALL	634926.2	4271192	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1854	ALL	634966.2	4271192	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1855	ALL	635006.2	4271192	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1856	ALL	635046.2	4271192	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1857	ALL	635086.2	4271192	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1858	ALL	635126.2	4271192	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1859	ALL	635166.2	4271192	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1860	ALL	635246.2	4271192	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1861	ALL	635326.2	4271192	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1862	ALL	635366.2	4271192	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1863	ALL	635406.2	4271192	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1864	ALL	635446.2	4271192	2.42E-08	1YrCancerD	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1865	ALL	635486.2	4271192	2.58E-08	1YrCancerD	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1866	ALL	635526.2	4271192	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1867	ALL	635566.2	4271192	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1868	ALL	635606.2	4271192	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1869	ALL	635646.2	4271192	3.17E-08	1YrCancerD	3.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1870	ALL	635686.2	4271192	3.26E-08	1YrCancerD	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1871	ALL	635726.2	4271192	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1872	ALL	635766.2	4271192	3.27E-08	1YrCancerD	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1873	ALL	635846.2	4271192	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1874	ALL	635926.2	4271192	2.66E-08	1YrCancerD	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1875	ALL	635966.2	4271192	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1876	ALL	636006.2	4271192	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1877	ALL	636166.2	4271192	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1878	ALL	636206.2	4271192	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1879	ALL	636246.2	4271192	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1880	ALL	636286.2	4271192	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1881	ALL	636326.2	4271192	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1882	ALL	636366.2	4271192	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1883	ALL	636406.2	4271192	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1884	ALL	636446.2	4271192	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1885	ALL	636486.2	4271192	1.62E-08	1YrCancerD	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1886	ALL	636526.2	4271192	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1887	ALL	636566.2	4271192	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1888	ALL	636606.2	4271192	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1889	ALL	636646.2	4271192	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1890	ALL	636686.2	4271192	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1891	ALL	636726.2	4271192	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1892	ALL	636766.2	4271192	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1893	ALL	636806.2	4271192	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1894	ALL	636846.2	4271192	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1895	ALL	636886.2	4271192	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1896	ALL	636926.2	4271192	2.54E-08	1YrCancerD	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1897	ALL	636966.2	4271192	3.40E-08	1YrCancerD	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1898	ALL	637006.2	4271192	6.50E-08	1YrCancerD	6.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1899	ALL	637046.2	4271192	9.89E-08	1YrCancerD	9.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1900	ALL	637086.2	4271192	4.25E-08	1YrCancerD	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1901	ALL	637206.2	4271192	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1902	ALL	637246.2	4271192	1.42E-08	1YrCancerD	1.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1903	ALL	637806.2	4271192	7.58E-09	1YrCancerD	7.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1904	ALL	637846.2	4271192	7.62E-09	1YrCancerD	7.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1905	ALL	637886.2	4271192	7.62E-09	1YrCancerD	7.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1906	ALL	637926.2	4271192	7.61E-09	1YrCancerD	7.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1907	ALL	637966.2	4271192	7.59E-09	1YrCancerD	7.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1908	ALL	638086.2	4271192	7.49E-09	1YrCancerD	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1909	ALL	638126.2	4271192	7.42E-09	1YrCancerD	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1910	ALL	638166.2	4271192	7.33E-09	1YrCancerD	7.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1911	ALL	638206.2	4271192	7.21E-09	1YrCancerD	7.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1912	ALL	638246.2	4271192	7.06E-09	1YrCancerD	7.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1913	ALL	638286.2	4271192	6.88E-09	1YrCancerD	6.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1914	ALL	638326.2	4271192	6.67E-09	1YrCancerD	6.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1915	ALL	638366.2	4271192	6.45E-09	1YrCancerD	6.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1916	ALL	638406.2	4271192	6.22E-09	1YrCancerD	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1917	ALL	634646.2	4271232	8.26E-09	1YrCancerD	8.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1918	ALL	634686.2	4271232	8.71E-09	1YrCancerD	8.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1919	ALL	634726.2	4271232	9.20E-09	1YrCancerD	9.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1920	ALL	634766.2	4271232	9.72E-09	1YrCancerD	9.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1921	ALL	634806.2	4271232	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1922	ALL	634846.2	4271232	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1923	ALL	634886.2	4271232	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1924	ALL	634926.2	4271232	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1925	ALL	634966.2	4271232	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1926	ALL	635006.2	4271232	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1927	ALL	635046.2	4271232	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1928	ALL	635086.2	4271232	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1929	ALL	635126.2	4271232	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1930	ALL	635206.2	4271232	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1931	ALL	635246.2	4271232	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1932	ALL	635366.2	4271232	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1933	ALL	635406.2	4271232	2.50E-08	1YrCancerD	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1934	ALL	635446.2	4271232	2.68E-08	1YrCancerD	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1935	ALL	635486.2	4271232	2.86E-08	1YrCancerD	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1936	ALL	635526.2	4271232	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1937	ALL	635566.2	4271232	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1938	ALL	635606.2	4271232	3.37E-08	1YrCancerD	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1939	ALL	635646.2	4271232	3.50E-08	1YrCancerD	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1940	ALL	635686.2	4271232	3.59E-08	1YrCancerD	3.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1941	ALL	635726.2	4271232	3.60E-08	1YrCancerD	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1942	ALL	635766.2	4271232	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1943	ALL	635806.2	4271232	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1944	ALL	635846.2	4271232	3.20E-08	1YrCancerD	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	ALL	635886.2	4271232	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	ALL	635926.2	4271232	2.78E-08	1YrCancerD	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	ALL	636126.2	4271232	2.10E-08	1YrCancerD	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	ALL	636166.2	4271232	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	ALL	636206.2	4271232	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1950	ALL	636246.2	4271232	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1951	ALL	636286.2	4271232	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1952	ALL	636326.2	4271232	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1953	ALL	636366.2	4271232	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1954	ALL	636406.2	4271232	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1955	ALL	636446.2	4271232	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1956	ALL	636486.2	4271232	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1957	ALL	636526.2	4271232	1.69E-08	1YrCancerD	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1958	ALL	636566.2	4271232	1.67E-08	1YrCancerD	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1959	ALL	636606.2	4271232	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1960	ALL	636646.2	4271232	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1961	ALL	636686.2	4271232	1.66E-08	1YrCancerD	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1962	ALL	636726.2	4271232	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1963	ALL	636766.2	4271232	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1964	ALL	636806.2	4271232	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1965	ALL	636846.2	4271232	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1966	ALL	636886.2	4271232	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1967	ALL	636926.2	4271232	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1968	ALL	636966.2	4271232	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1969	ALL	637006.2	4271232	3.79E-08	1YrCancerD	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1970	ALL	637206.2	4271232	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1971	ALL	637246.2	4271232	1.48E-08	1YrCancerD	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1972	ALL	637806.2	4271232	7.32E-09	1YrCancerD	7.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1973	ALL	637846.2	4271232	7.31E-09	1YrCancerD	7.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1974	ALL	637886.2	4271232	7.29E-09	1YrCancerD	7.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	ALL	637926.2	4271232	7.26E-09	1YrCancerD	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	ALL	637966.2	4271232	7.22E-09	1YrCancerD	7.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	ALL	638086.2	4271232	7.08E-09	1YrCancerD	7.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	ALL	638126.2	4271232	7.00E-09	1YrCancerD	7.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1979	ALL	638166.2	4271232	6.91E-09	1YrCancerD	6.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	ALL	638206.2	4271232	6.80E-09	1YrCancerD	6.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	ALL	638246.2	4271232	6.66E-09	1YrCancerD	6.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	ALL	638286.2	4271232	6.51E-09	1YrCancerD	6.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	ALL	638326.2	4271232	6.34E-09	1YrCancerD	6.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1984	ALL	638366.2	4271232	6.16E-09	1YrCancerD	6.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1985	ALL	638406.2	4271232	5.96E-09	1YrCancerD	5.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1986	ALL	634686.2	4271272	9.05E-09	1YrCancerD	9.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1987	ALL	634726.2	4271272	9.58E-09	1YrCancerD	9.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1988	ALL	634766.2	4271272	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1989	ALL	634806.2	4271272	1.08E-08	1YrCancerD	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1990	ALL	634846.2	4271272	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1991	ALL	634886.2	4271272	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1992	ALL	634926.2	4271272	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1993	ALL	634966.2	4271272	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1994	ALL	635006.2	4271272	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1995	ALL	635046.2	4271272	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1996	ALL	635086.2	4271272	1.59E-08	1YrCancerD	1.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1997	ALL	635126.2	4271272	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1998	ALL	635166.2	4271272	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1999	ALL	635206.2	4271272	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2000	ALL	635246.2	4271272	2.04E-08	1YrCancerD	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2001	ALL	635286.2	4271272	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2002	ALL	635366.2	4271272	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2003	ALL	635406.2	4271272	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2004	ALL	635446.2	4271272	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2005	ALL	635486.2	4271272	3.19E-08	1YrCancerD	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2006	ALL	635526.2	4271272	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2007	ALL	635566.2	4271272	3.58E-08	1YrCancerD	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2008	ALL	635606.2	4271272	3.75E-08	1YrCancerD	3.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2009	ALL	635646.2	4271272	3.89E-08	1YrCancerD	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2010	ALL	635686.2	4271272	3.96E-08	1YrCancerD	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2011	ALL	635726.2	4271272	3.95E-08	1YrCancerD	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2012	ALL	635766.2	4271272	3.83E-08	1YrCancerD	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2013	ALL	635806.2	4271272	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2014	ALL	635846.2	4271272	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2015	ALL	636046.2	4271272	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2016	ALL	636086.2	4271272	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2017	ALL	636126.2	4271272	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2018	ALL	636166.2	4271272	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2019	ALL	636206.2	4271272	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2020	ALL	636246.2	4271272	2.03E-08	1YrCancerD	2.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2021	ALL	636286.2	4271272	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2022	ALL	636326.2	4271272	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2023	ALL	636366.2	4271272	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2024	ALL	636406.2	4271272	1.91E-08	1YrCancerD	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2025	ALL	636446.2	4271272	1.89E-08	1YrCancerD	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2026	ALL	636486.2	4271272	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2027	ALL	636526.2	4271272	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2028	ALL	636566.2	4271272	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2029	ALL	636606.2	4271272	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2030	ALL	636646.2	4271272	1.77E-08	1YrCancerD	1.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2031	ALL	636686.2	4271272	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2032	ALL	636726.2	4271272	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2033	ALL	636766.2	4271272	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2034	ALL	636806.2	4271272	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2035	ALL	636846.2	4271272	1.86E-08	1YrCancerD	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2036	ALL	636886.2	4271272	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2037	ALL	636926.2	4271272	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2038	ALL	636966.2	4271272	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2039	ALL	637006.2	4271272	2.93E-08	1YrCancerD	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2040	ALL	637046.2	4271272	4.24E-08	1YrCancerD	4.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2041	ALL	637806.2	4271272	7.07E-09	1YrCancerD	7.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2042	ALL	637846.2	4271272	7.04E-09	1YrCancerD	7.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2043	ALL	637886.2	4271272	7.00E-09	1YrCancerD	7.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2044	ALL	637926.2	4271272	6.95E-09	1YrCancerD	6.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2045	ALL	637966.2	4271272	6.90E-09	1YrCancerD	6.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2046	ALL	638086.2	4271272	6.72E-09	1YrCancerD	6.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2047	ALL	638126.2	4271272	6.64E-09	1YrCancerD	6.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2048	ALL	638166.2	4271272	6.55E-09	1YrCancerD	6.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2049	ALL	638206.2	4271272	6.44E-09	1YrCancerD	6.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2050	ALL	638246.2	4271272	6.32E-09	1YrCancerD	6.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2051	ALL	638286.2	4271272	6.19E-09	1YrCancerD	6.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2052	ALL	638326.2	4271272	6.05E-09	1YrCancerD	6.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2053	ALL	638366.2	4271272	5.89E-09	1YrCancerD	5.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2054	ALL	638406.2	4271272	5.73E-09	1YrCancerD	5.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2055	ALL	634766.2	4271312	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2056	ALL	634806.2	4271312	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2057	ALL	634846.2	4271312	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2058	ALL	634886.2	4271312	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2059	ALL	634926.2	4271312	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2060	ALL	634966.2	4271312	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2061	ALL	635006.2	4271312	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2062	ALL	635046.2	4271312	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2063	ALL	635086.2	4271312	1.71E-08	1YrCancerD	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2064	ALL	635126.2	4271312	1.81E-08	1YrCancerD	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2065	ALL	635166.2	4271312	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2066	ALL	635206.2	4271312	2.08E-08	1YrCancerD	2.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2067	ALL	635246.2	4271312	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2068	ALL	635286.2	4271312	2.43E-08	1YrCancerD	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2069	ALL	635326.2	4271312	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2070	ALL	635406.2	4271312	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2071	ALL	635446.2	4271312	3.34E-08	1YrCancerD	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2072	ALL	635486.2	4271312	3.58E-08	1YrCancerD	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2073	ALL	635526.2	4271312	3.80E-08	1YrCancerD	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2074	ALL	635566.2	4271312	4.01E-08	1YrCancerD	4.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2075	ALL	635606.2	4271312	4.20E-08	1YrCancerD	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2076	ALL	635646.2	4271312	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2077	ALL	635686.2	4271312	4.41E-08	1YrCancerD	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2078	ALL	635726.2	4271312	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2079	ALL	635766.2	4271312	4.16E-08	1YrCancerD	4.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2080	ALL	635966.2	4271312	2.88E-08	1YrCancerD	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2081	ALL	636006.2	4271312	2.72E-08	1YrCancerD	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2082	ALL	636046.2	4271312	2.59E-08	1YrCancerD	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2083	ALL	636086.2	4271312	2.49E-08	1YrCancerD	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2084	ALL	636126.2	4271312	2.40E-08	1YrCancerD	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2085	ALL	636166.2	4271312	2.34E-08	1YrCancerD	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2086	ALL	636206.2	4271312	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2087	ALL	636246.2	4271312	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2088	ALL	636286.2	4271312	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2089	ALL	636326.2	4271312	2.21E-08	1YrCancerD	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2090	ALL	636366.2	4271312	2.20E-08	1YrCancerD	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2091	ALL	636406.2	4271312	2.19E-08	1YrCancerD	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2092	ALL	636446.2	4271312	2.17E-08	1YrCancerD	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2093	ALL	636486.2	4271312	2.15E-08	1YrCancerD	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2094	ALL	636526.2	4271312	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2095	ALL	636566.2	4271312	2.07E-08	1YrCancerD	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2096	ALL	636606.2	4271312	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2097	ALL	636646.2	4271312	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2098	ALL	636686.2	4271312	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2099	ALL	636726.2	4271312	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2100	ALL	636766.2	4271312	1.93E-08	1YrCancerD	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2101	ALL	636806.2	4271312	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2102	ALL	636846.2	4271312	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2103	ALL	636886.2	4271312	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2104	ALL	636926.2	4271312	2.12E-08	1YrCancerD	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2105	ALL	636966.2	4271312	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2106	ALL	637006.2	4271312	2.63E-08	1YrCancerD	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2107	ALL	637046.2	4271312	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2108	ALL	637086.2	4271312	5.01E-08	1YrCancerD	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2109	ALL	637886.2	4271312	6.74E-09	1YrCancerD	6.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2110	ALL	637926.2	4271312	6.68E-09	1YrCancerD	6.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2111	ALL	637966.2	4271312	6.62E-09	1YrCancerD	6.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2112	ALL	638086.2	4271312	6.40E-09	1YrCancerD	6.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2113	ALL	638126.2	4271312	6.32E-09	1YrCancerD	6.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2114	ALL	638166.2	4271312	6.23E-09	1YrCancerD	6.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2115	ALL	638206.2	4271312	6.13E-09	1YrCancerD	6.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2116	ALL	638246.2	4271312	6.02E-09	1YrCancerD	6.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2117	ALL	638286.2	4271312	5.90E-09	1YrCancerD	5.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2118	ALL	638326.2	4271312	5.78E-09	1YrCancerD	5.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2119	ALL	638366.2	4271312	5.65E-09	1YrCancerD	5.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2120	ALL	638406.2	4271312	5.50E-09	1YrCancerD	5.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2121	ALL	634806.2	4271352	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2122	ALL	634846.2	4271352	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2123	ALL	634886.2	4271352	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2124	ALL	634926.2	4271352	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2125	ALL	634966.2	4271352	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2126	ALL	635006.2	4271352	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2127	ALL	635046.2	4271352	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2128	ALL	635126.2	4271352	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2129	ALL	635166.2	4271352	2.11E-08	1YrCancerD	2.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2130	ALL	635206.2	4271352	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2131	ALL	635246.2	4271352	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2132	ALL	635286.2	4271352	2.69E-08	1YrCancerD	2.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2133	ALL	635326.2	4271352	2.94E-08	1YrCancerD	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2134	ALL	635366.2	4271352	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2135	ALL	635446.2	4271352	3.77E-08	1YrCancerD	3.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2136	ALL	635486.2	4271352	4.04E-08	1YrCancerD	4.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2137	ALL	635526.2	4271352	4.30E-08	1YrCancerD	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2138	ALL	635566.2	4271352	4.54E-08	1YrCancerD	4.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2139	ALL	635606.2	4271352	4.75E-08	1YrCancerD	4.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2140	ALL	635646.2	4271352	4.90E-08	1YrCancerD	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2141	ALL	635686.2	4271352	4.93E-08	1YrCancerD	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2142	ALL	635846.2	4271352	3.84E-08	1YrCancerD	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2143	ALL	635886.2	4271352	3.54E-08	1YrCancerD	3.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2144	ALL	635926.2	4271352	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2145	ALL	635966.2	4271352	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2146	ALL	636006.2	4271352	2.96E-08	1YrCancerD	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2147	ALL	636046.2	4271352	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2148	ALL	636086.2	4271352	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2149	ALL	636126.2	4271352	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2150	ALL	636166.2	4271352	2.67E-08	1YrCancerD	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2151	ALL	636206.2	4271352	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2152	ALL	636246.2	4271352	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2153	ALL	636286.2	4271352	2.66E-08	1YrCancerD	2.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2154	ALL	636326.2	4271352	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2155	ALL	636366.2	4271352	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2156	ALL	636646.2	4271352	2.46E-08	1YrCancerD	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2157	ALL	636686.2	4271352	2.38E-08	1YrCancerD	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2158	ALL	636726.2	4271352	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2159	ALL	636766.2	4271352	2.27E-08	1YrCancerD	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2160	ALL	636806.2	4271352	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2161	ALL	636846.2	4271352	2.24E-08	1YrCancerD	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2162	ALL	636886.2	4271352	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2163	ALL	636926.2	4271352	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2164	ALL	636966.2	4271352	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2165	ALL	637006.2	4271352	2.70E-08	1YrCancerD	2.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2166	ALL	637046.2	4271352	3.25E-08	1YrCancerD	3.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2167	ALL	637086.2	4271352	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2168	ALL	637886.2	4271352	6.50E-09	1YrCancerD	6.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2169	ALL	637926.2	4271352	6.43E-09	1YrCancerD	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2170	ALL	637966.2	4271352	6.36E-09	1YrCancerD	6.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2171	ALL	638086.2	4271352	6.13E-09	1YrCancerD	6.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2172	ALL	638126.2	4271352	6.04E-09	1YrCancerD	6.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2173	ALL	638166.2	4271352	5.95E-09	1YrCancerD	5.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2174	ALL	638206.2	4271352	5.85E-09	1YrCancerD	5.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2175	ALL	638246.2	4271352	5.75E-09	1YrCancerD	5.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2176	ALL	638286.2	4271352	5.64E-09	1YrCancerD	5.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2177	ALL	638326.2	4271352	5.53E-09	1YrCancerD	5.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2178	ALL	638366.2	4271352	5.42E-09	1YrCancerD	5.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2179	ALL	638406.2	4271352	5.30E-09	1YrCancerD	5.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2180	ALL	634886.2	4271392	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2181	ALL	634926.2	4271392	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2182	ALL	634966.2	4271392	1.64E-08	1YrCancerD	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2183	ALL	635006.2	4271392	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2184	ALL	635086.2	4271392	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2185	ALL	635126.2	4271392	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2186	ALL	635166.2	4271392	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2187	ALL	635206.2	4271392	2.50E-08	1YrCancerD	2.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2188	ALL	635246.2	4271392	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2189	ALL	635286.2	4271392	3.01E-08	1YrCancerD	3.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2190	ALL	635326.2	4271392	3.30E-08	1YrCancerD	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2191	ALL	635366.2	4271392	3.62E-08	1YrCancerD	3.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2192	ALL	635406.2	4271392	3.95E-08	1YrCancerD	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2193	ALL	635446.2	4271392	4.28E-08	1YrCancerD	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2194	ALL	635486.2	4271392	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2195	ALL	635526.2	4271392	4.91E-08	1YrCancerD	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2196	ALL	635566.2	4271392	5.19E-08	1YrCancerD	5.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2197	ALL	635606.2	4271392	5.42E-08	1YrCancerD	5.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2198	ALL	635766.2	4271392	4.94E-08	1YrCancerD	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2199	ALL	635806.2	4271392	4.52E-08	1YrCancerD	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2200	ALL	635846.2	4271392	4.15E-08	1YrCancerD	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2201	ALL	635886.2	4271392	3.84E-08	1YrCancerD	3.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2202	ALL	635926.2	4271392	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2203	ALL	635966.2	4271392	3.48E-08	1YrCancerD	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2204	ALL	636006.2	4271392	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2205	ALL	636046.2	4271392	3.35E-08	1YrCancerD	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2206	ALL	636086.2	4271392	3.34E-08	1YrCancerD	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2207	ALL	636126.2	4271392	3.36E-08	1YrCancerD	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2208	ALL	636166.2	4271392	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2209	ALL	636206.2	4271392	3.48E-08	1YrCancerD	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2210	ALL	636246.2	4271392	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2211	ALL	636286.2	4271392	3.89E-08	1YrCancerD	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2212	ALL	636326.2	4271392	4.29E-08	1YrCancerD	4.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2213	ALL	636366.2	4271392	4.77E-08	1YrCancerD	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2214	ALL	636406.2	4271392	5.15E-08	1YrCancerD	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2215	ALL	636446.2	4271392	5.26E-08	1YrCancerD	5.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2216	ALL	636486.2	4271392	5.25E-08	1YrCancerD	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2217	ALL	636526.2	4271392	4.96E-08	1YrCancerD	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2218	ALL	636566.2	4271392	4.58E-08	1YrCancerD	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2219	ALL	636606.2	4271392	4.24E-08	1YrCancerD	4.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2220	ALL	636646.2	4271392	3.91E-08	1YrCancerD	3.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2221	ALL	636686.2	4271392	3.63E-08	1YrCancerD	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2222	ALL	636726.2	4271392	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2223	ALL	636766.2	4271392	3.21E-08	1YrCancerD	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2224	ALL	636806.2	4271392	3.09E-08	1YrCancerD	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2225	ALL	636846.2	4271392	2.99E-08	1YrCancerD	2.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2226	ALL	636886.2	4271392	2.92E-08	1YrCancerD	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2227	ALL	636926.2	4271392	2.90E-08	1YrCancerD	2.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2228	ALL	636966.2	4271392	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2229	ALL	637006.2	4271392	3.39E-08	1YrCancerD	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2230	ALL	637046.2	4271392	4.41E-08	1YrCancerD	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2231	ALL	637886.2	4271392	6.28E-09	1YrCancerD	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2232	ALL	637926.2	4271392	6.20E-09	1YrCancerD	6.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2233	ALL	637966.2	4271392	6.12E-09	1YrCancerD	6.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2234	ALL	638086.2	4271392	5.87E-09	1YrCancerD	5.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2235	ALL	638126.2	4271392	5.79E-09	1YrCancerD	5.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2236	ALL	638166.2	4271392	5.70E-09	1YrCancerD	5.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2237	ALL	638206.2	4271392	5.60E-09	1YrCancerD	5.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2238	ALL	638246.2	4271392	5.51E-09	1YrCancerD	5.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2239	ALL	638326.2	4271392	5.31E-09	1YrCancerD	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2240	ALL	638366.2	4271392	5.21E-09	1YrCancerD	5.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2241	ALL	638406.2	4271392	5.10E-09	1YrCancerD	5.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2242	ALL	634926.2	4271432	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2243	ALL	634966.2	4271432	1.75E-08	1YrCancerD	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2244	ALL	635006.2	4271432	1.88E-08	1YrCancerD	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2245	ALL	635046.2	4271432	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2246	ALL	635086.2	4271432	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2247	ALL	635126.2	4271432	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2248	ALL	635166.2	4271432	2.54E-08	1YrCancerD	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2249	ALL	635206.2	4271432	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2250	ALL	635246.2	4271432	3.06E-08	1YrCancerD	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2251	ALL	635286.2	4271432	3.38E-08	1YrCancerD	3.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2252	ALL	635326.2	4271432	3.74E-08	1YrCancerD	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2253	ALL	635366.2	4271432	4.12E-08	1YrCancerD	4.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2254	ALL	635406.2	4271432	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2255	ALL	635486.2	4271432	5.30E-08	1YrCancerD	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2256	ALL	635526.2	4271432	5.67E-08	1YrCancerD	5.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2257	ALL	635686.2	4271432	6.30E-08	1YrCancerD	6.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2258	ALL	635726.2	4271432	5.93E-08	1YrCancerD	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2259	ALL	635766.2	4271432	5.43E-08	1YrCancerD	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2260	ALL	635806.2	4271432	4.96E-08	1YrCancerD	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2261	ALL	635846.2	4271432	4.59E-08	1YrCancerD	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2262	ALL	635886.2	4271432	4.35E-08	1YrCancerD	4.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2263	ALL	635926.2	4271432	4.25E-08	1YrCancerD	4.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2264	ALL	635966.2	4271432	4.27E-08	1YrCancerD	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2265	ALL	636006.2	4271432	4.43E-08	1YrCancerD	4.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2266	ALL	636046.2	4271432	4.71E-08	1YrCancerD	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2267	ALL	636086.2	4271432	5.15E-08	1YrCancerD	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2268	ALL	636126.2	4271432	5.70E-08	1YrCancerD	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2269	ALL	636166.2	4271432	6.33E-08	1YrCancerD	6.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2270	ALL	636206.2	4271432	7.60E-08	1YrCancerD	7.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2271	ALL	637886.2	4271432	6.08E-09	1YrCancerD	6.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2272	ALL	637926.2	4271432	5.99E-09	1YrCancerD	5.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2273	ALL	637966.2	4271432	5.91E-09	1YrCancerD	5.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2274	ALL	638086.2	4271432	5.65E-09	1YrCancerD	5.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2275	ALL	638126.2	4271432	5.56E-09	1YrCancerD	5.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2276	ALL	638166.2	4271432	5.47E-09	1YrCancerD	5.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2277	ALL	638206.2	4271432	5.38E-09	1YrCancerD	5.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2278	ALL	638246.2	4271432	5.29E-09	1YrCancerD	5.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2279	ALL	638366.2	4271432	5.02E-09	1YrCancerD	5.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2280	ALL	638406.2	4271432	4.92E-09	1YrCancerD	4.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2281	ALL	635046.2	4271472	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2282	ALL	635086.2	4271472	2.35E-08	1YrCancerD	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2283	ALL	635126.2	4271472	2.56E-08	1YrCancerD	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2284	ALL	635166.2	4271472	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2285	ALL	635206.2	4271472	3.09E-08	1YrCancerD	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2286	ALL	635246.2	4271472	3.44E-08	1YrCancerD	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2287	ALL	635286.2	4271472	3.83E-08	1YrCancerD	3.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2288	ALL	635326.2	4271472	4.27E-08	1YrCancerD	4.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2289	ALL	635366.2	4271472	4.73E-08	1YrCancerD	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2290	ALL	635406.2	4271472	5.20E-08	1YrCancerD	5.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2291	ALL	635446.2	4271472	5.68E-08	1YrCancerD	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2292	ALL	635606.2	4271472	7.36E-08	1YrCancerD	7.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2293	ALL	635646.2	4271472	7.48E-08	1YrCancerD	7.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2294	ALL	635686.2	4271472	7.24E-08	1YrCancerD	7.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2295	ALL	635726.2	4271472	6.69E-08	1YrCancerD	6.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2296	ALL	635766.2	4271472	6.09E-08	1YrCancerD	6.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2297	ALL	635806.2	4271472	5.65E-08	1YrCancerD	5.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2298	ALL	635846.2	4271472	5.43E-08	1YrCancerD	5.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2299	ALL	635886.2	4271472	5.56E-08	1YrCancerD	5.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2300	ALL	635926.2	4271472	6.13E-08	1YrCancerD	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2301	ALL	635966.2	4271472	7.44E-08	1YrCancerD	7.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2302	ALL	637886.2	4271472	5.89E-09	1YrCancerD	5.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2303	ALL	637926.2	4271472	5.80E-09	1YrCancerD	5.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2304	ALL	637966.2	4271472	5.71E-09	1YrCancerD	5.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2305	ALL	638086.2	4271472	5.44E-09	1YrCancerD	5.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2306	ALL	638126.2	4271472	5.36E-09	1YrCancerD	5.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2307	ALL	638166.2	4271472	5.27E-09	1YrCancerD	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2308	ALL	638206.2	4271472	5.19E-09	1YrCancerD	5.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2309	ALL	638326.2	4271472	4.93E-09	1YrCancerD	4.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2310	ALL	638366.2	4271472	4.84E-09	1YrCancerD	4.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2311	ALL	638406.2	4271472	4.75E-09	1YrCancerD	4.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2312	ALL	634126.2	4271512	4.98E-09	1YrCancerD	4.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2313	ALL	634166.2	4271512	5.23E-09	1YrCancerD	5.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2314	ALL	634206.2	4271512	5.50E-09	1YrCancerD	5.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2315	ALL	634246.2	4271512	5.80E-09	1YrCancerD	5.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2316	ALL	634286.2	4271512	6.11E-09	1YrCancerD	6.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2317	ALL	634326.2	4271512	6.46E-09	1YrCancerD	6.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2318	ALL	634366.2	4271512	6.84E-09	1YrCancerD	6.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2319	ALL	634406.2	4271512	7.25E-09	1YrCancerD	7.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2320	ALL	634446.2	4271512	7.71E-09	1YrCancerD	7.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2321	ALL	635046.2	4271512	2.36E-08	1YrCancerD	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2322	ALL	635086.2	4271512	2.57E-08	1YrCancerD	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2323	ALL	635126.2	4271512	2.82E-08	1YrCancerD	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2324	ALL	635166.2	4271512	3.11E-08	1YrCancerD	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2325	ALL	635206.2	4271512	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2326	ALL	635246.2	4271512	3.89E-08	1YrCancerD	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2327	ALL	635286.2	4271512	4.38E-08	1YrCancerD	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2328	ALL	635326.2	4271512	4.91E-08	1YrCancerD	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2329	ALL	635526.2	4271512	7.93E-08	1YrCancerD	7.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2330	ALL	635726.2	4271512	7.71E-08	1YrCancerD	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2331	ALL	635766.2	4271512	7.23E-08	1YrCancerD	7.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2332	ALL	635806.2	4271512	7.31E-08	1YrCancerD	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2333	ALL	635846.2	4271512	8.46E-08	1YrCancerD	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2334	ALL	634126.2	4271552	5.04E-09	1YrCancerD	5.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2335	ALL	634166.2	4271552	5.30E-09	1YrCancerD	5.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2336	ALL	634206.2	4271552	5.58E-09	1YrCancerD	5.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2337	ALL	634246.2	4271552	5.89E-09	1YrCancerD	5.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2338	ALL	634286.2	4271552	6.22E-09	1YrCancerD	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2339	ALL	634326.2	4271552	6.59E-09	1YrCancerD	6.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2340	ALL	634366.2	4271552	6.99E-09	1YrCancerD	6.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2341	ALL	634406.2	4271552	7.42E-09	1YrCancerD	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2342	ALL	634446.2	4271552	7.90E-09	1YrCancerD	7.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2343	ALL	634486.2	4271552	8.43E-09	1YrCancerD	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2344	ALL	634526.2	4271552	9.01E-09	1YrCancerD	9.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2345	ALL	634566.2	4271552	9.65E-09	1YrCancerD	9.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2346	ALL	635446.2	4271552	7.98E-08	1YrCancerD	7.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2347	ALL	635486.2	4271552	8.85E-08	1YrCancerD	8.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2348	ALL	635566.2	4271552	1.05E-07	1YrCancerD	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2349	ALL	635606.2	4271552	1.10E-07	1YrCancerD	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2350	ALL	635686.2	4271552	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2351	ALL	635726.2	4271552	9.65E-08	1YrCancerD	9.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2352	ALL	635766.2	4271552	1.14E-07	1YrCancerD	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2353	ALL	634006.2	4271592	4.39E-09	1YrCancerD	4.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2354	ALL	634046.2	4271592	4.60E-09	1YrCancerD	4.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2355	ALL	634086.2	4271592	4.84E-09	1YrCancerD	4.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2356	ALL	634126.2	4271592	5.09E-09	1YrCancerD	5.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2357	ALL	634166.2	4271592	5.36E-09	1YrCancerD	5.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2358	ALL	634206.2	4271592	5.66E-09	1YrCancerD	5.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2359	ALL	634246.2	4271592	5.98E-09	1YrCancerD	5.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2360	ALL	634286.2	4271592	6.33E-09	1YrCancerD	6.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2361	ALL	634326.2	4271592	6.71E-09	1YrCancerD	6.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2362	ALL	634366.2	4271592	7.13E-09	1YrCancerD	7.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2363	ALL	634406.2	4271592	7.59E-09	1YrCancerD	7.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2364	ALL	634446.2	4271592	8.10E-09	1YrCancerD	8.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2365	ALL	634486.2	4271592	8.66E-09	1YrCancerD	8.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2366	ALL	634526.2	4271592	9.28E-09	1YrCancerD	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2367	ALL	634566.2	4271592	9.97E-09	1YrCancerD	9.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2368	ALL	634606.2	4271592	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2369	ALL	634646.2	4271592	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2370	ALL	635086.2	4271592	3.12E-08	1YrCancerD	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2371	ALL	635126.2	4271592	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2372	ALL	635166.2	4271592	3.92E-08	1YrCancerD	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2373	ALL	635206.2	4271592	4.46E-08	1YrCancerD	4.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2374	ALL	635246.2	4271592	5.11E-08	1YrCancerD	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2375	ALL	635366.2	4271592	7.62E-08	1YrCancerD	7.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2376	ALL	635486.2	4271592	1.11E-07	1YrCancerD	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2377	ALL	635526.2	4271592	1.25E-07	1YrCancerD	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2378	ALL	635566.2	4271592	1.37E-07	1YrCancerD	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2379	ALL	635646.2	4271592	1.40E-07	1YrCancerD	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2380	ALL	635686.2	4271592	1.33E-07	1YrCancerD	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2381	ALL	634046.2	4271632	4.64E-09	1YrCancerD	4.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2382	ALL	634086.2	4271632	4.88E-09	1YrCancerD	4.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2383	ALL	634126.2	4271632	5.14E-09	1YrCancerD	5.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2384	ALL	634166.2	4271632	5.42E-09	1YrCancerD	5.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2385	ALL	634206.2	4271632	5.73E-09	1YrCancerD	5.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2386	ALL	634246.2	4271632	6.06E-09	1YrCancerD	6.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2387	ALL	634286.2	4271632	6.43E-09	1YrCancerD	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2388	ALL	634326.2	4271632	6.83E-09	1YrCancerD	6.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2389	ALL	634366.2	4271632	7.27E-09	1YrCancerD	7.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2390	ALL	634406.2	4271632	7.75E-09	1YrCancerD	7.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2391	ALL	634446.2	4271632	8.29E-09	1YrCancerD	8.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2392	ALL	634486.2	4271632	8.89E-09	1YrCancerD	8.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2393	ALL	634526.2	4271632	9.56E-09	1YrCancerD	9.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2394	ALL	634566.2	4271632	1.03E-08	1YrCancerD	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2395	ALL	634606.2	4271632	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2396	ALL	634646.2	4271632	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2397	ALL	634686.2	4271632	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2398	ALL	635086.2	4271632	3.47E-08	1YrCancerD	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2399	ALL	635126.2	4271632	3.90E-08	1YrCancerD	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2400	ALL	635166.2	4271632	4.44E-08	1YrCancerD	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2401	ALL	635286.2	4271632	6.91E-08	1YrCancerD	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2402	ALL	635406.2	4271632	1.06E-07	1YrCancerD	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2403	ALL	635446.2	4271632	1.23E-07	1YrCancerD	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2404	ALL	635486.2	4271632	1.44E-07	1YrCancerD	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2405	ALL	635526.2	4271632	1.69E-07	1YrCancerD	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2406	ALL	635606.2	4271632	2.08E-07	1YrCancerD	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2407	ALL	635646.2	4271632	1.99E-07	1YrCancerD	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2408	ALL	634086.2	4271672	4.92E-09	1YrCancerD	4.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2409	ALL	634126.2	4271672	5.18E-09	1YrCancerD	5.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2410	ALL	634166.2	4271672	5.47E-09	1YrCancerD	5.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2411	ALL	634206.2	4271672	5.79E-09	1YrCancerD	5.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2412	ALL	634246.2	4271672	6.14E-09	1YrCancerD	6.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2413	ALL	634286.2	4271672	6.52E-09	1YrCancerD	6.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2414	ALL	634326.2	4271672	6.94E-09	1YrCancerD	6.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2415	ALL	634366.2	4271672	7.40E-09	1YrCancerD	7.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2416	ALL	634406.2	4271672	7.91E-09	1YrCancerD	7.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2417	ALL	634446.2	4271672	8.49E-09	1YrCancerD	8.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2418	ALL	634486.2	4271672	9.12E-09	1YrCancerD	9.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2419	ALL	634526.2	4271672	9.84E-09	1YrCancerD	9.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2420	ALL	634566.2	4271672	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2421	ALL	634606.2	4271672	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2422	ALL	634646.2	4271672	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2423	ALL	634686.2	4271672	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2424	ALL	634726.2	4271672	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2425	ALL	635206.2	4271672	5.98E-08	1YrCancerD	5.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2426	ALL	635326.2	4271672	9.64E-08	1YrCancerD	9.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2427	ALL	635366.2	4271672	1.13E-07	1YrCancerD	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2428	ALL	635406.2	4271672	1.34E-07	1YrCancerD	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2429	ALL	635446.2	4271672	1.62E-07	1YrCancerD	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2430	ALL	635486.2	4271672	2.00E-07	1YrCancerD	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2431	ALL	635566.2	4271672	3.20E-07	1YrCancerD	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2432	ALL	634126.2	4271712	5.23E-09	1YrCancerD	5.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2433	ALL	634166.2	4271712	5.53E-09	1YrCancerD	5.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2434	ALL	634206.2	4271712	5.85E-09	1YrCancerD	5.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2435	ALL	634246.2	4271712	6.21E-09	1YrCancerD	6.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2436	ALL	634286.2	4271712	6.61E-09	1YrCancerD	6.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2437	ALL	634326.2	4271712	7.05E-09	1YrCancerD	7.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2438	ALL	634366.2	4271712	7.53E-09	1YrCancerD	7.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2439	ALL	634406.2	4271712	8.07E-09	1YrCancerD	8.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2440	ALL	634446.2	4271712	8.68E-09	1YrCancerD	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2441	ALL	634486.2	4271712	9.35E-09	1YrCancerD	9.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2442	ALL	634526.2	4271712	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2443	ALL	634566.2	4271712	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2444	ALL	634606.2	4271712	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2445	ALL	634646.2	4271712	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2446	ALL	634686.2	4271712	1.43E-08	1YrCancerD	1.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2447	ALL	634726.2	4271712	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2448	ALL	634766.2	4271712	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2449	ALL	635166.2	4271712	5.94E-08	1YrCancerD	5.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2450	ALL	635246.2	4271712	8.43E-08	1YrCancerD	8.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2451	ALL	635286.2	4271712	9.99E-08	1YrCancerD	9.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2452	ALL	635326.2	4271712	1.18E-07	1YrCancerD	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2453	ALL	635366.2	4271712	1.42E-07	1YrCancerD	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2454	ALL	635406.2	4271712	1.76E-07	1YrCancerD	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2455	ALL	635446.2	4271712	2.26E-07	1YrCancerD	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2456	ALL	635526.2	4271712	4.52E-07	1YrCancerD	4.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2457	ALL	634206.2	4271752	5.91E-09	1YrCancerD	5.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2458	ALL	634246.2	4271752	6.28E-09	1YrCancerD	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2459	ALL	634286.2	4271752	6.69E-09	1YrCancerD	6.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2460	ALL	634326.2	4271752	7.15E-09	1YrCancerD	7.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2461	ALL	634366.2	4271752	7.66E-09	1YrCancerD	7.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2462	ALL	634406.2	4271752	8.22E-09	1YrCancerD	8.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2463	ALL	634446.2	4271752	8.86E-09	1YrCancerD	8.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2464	ALL	634486.2	4271752	9.57E-09	1YrCancerD	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2465	ALL	634526.2	4271752	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2466	ALL	634566.2	4271752	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2467	ALL	634606.2	4271752	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2468	ALL	634646.2	4271752	1.36E-08	1YrCancerD	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2469	ALL	634726.2	4271752	1.65E-08	1YrCancerD	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2470	ALL	634766.2	4271752	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2471	ALL	634806.2	4271752	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2472	ALL	635206.2	4271752	8.50E-08	1YrCancerD	8.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2473	ALL	635246.2	4271752	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2474	ALL	635286.2	4271752	1.23E-07	1YrCancerD	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2475	ALL	635326.2	4271752	1.49E-07	1YrCancerD	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2476	ALL	635366.2	4271752	1.86E-07	1YrCancerD	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2477	ALL	635406.2	4271752	2.45E-07	1YrCancerD	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2478	ALL	635486.2	4271752	5.87E-07	1YrCancerD	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2479	ALL	634366.2	4271792	7.77E-09	1YrCancerD	7.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2480	ALL	634406.2	4271792	8.36E-09	1YrCancerD	8.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2481	ALL	634446.2	4271792	9.03E-09	1YrCancerD	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2482	ALL	634486.2	4271792	9.78E-09	1YrCancerD	9.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2483	ALL	634526.2	4271792	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2484	ALL	634566.2	4271792	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2485	ALL	634606.2	4271792	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2486	ALL	634646.2	4271792	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2487	ALL	634726.2	4271792	1.74E-08	1YrCancerD	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2488	ALL	634766.2	4271792	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2489	ALL	634806.2	4271792	2.18E-08	1YrCancerD	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2490	ALL	634846.2	4271792	2.47E-08	1YrCancerD	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2491	ALL	635046.2	4271792	4.96E-08	1YrCancerD	4.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2492	ALL	635206.2	4271792	1.04E-07	1YrCancerD	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2493	ALL	635246.2	4271792	1.26E-07	1YrCancerD	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2494	ALL	635286.2	4271792	1.54E-07	1YrCancerD	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2495	ALL	635326.2	4271792	1.93E-07	1YrCancerD	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2496	ALL	635446.2	4271792	7.00E-07	1YrCancerD	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2497	ALL	634606.2	4271832	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2498	ALL	634646.2	4271832	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2499	ALL	634686.2	4271832	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2500	ALL	634726.2	4271832	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2501	ALL	634766.2	4271832	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2502	ALL	634806.2	4271832	2.33E-08	1YrCancerD	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2503	ALL	634846.2	4271832	2.67E-08	1YrCancerD	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2504	ALL	635006.2	4271832	4.84E-08	1YrCancerD	4.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2505	ALL	635046.2	4271832	5.73E-08	1YrCancerD	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2506	ALL	635126.2	4271832	8.35E-08	1YrCancerD	8.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2507	ALL	635166.2	4271832	1.04E-07	1YrCancerD	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2508	ALL	635206.2	4271832	1.29E-07	1YrCancerD	1.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2509	ALL	635246.2	4271832	1.59E-07	1YrCancerD	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2510	ALL	635286.2	4271832	1.99E-07	1YrCancerD	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2511	ALL	635366.2	4271832	3.82E-07	1YrCancerD	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2512	ALL	635006.2	4271872	5.60E-08	1YrCancerD	5.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2513	ALL	635046.2	4271872	6.79E-08	1YrCancerD	6.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2514	ALL	635086.2	4271872	8.31E-08	1YrCancerD	8.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2515	ALL	635126.2	4271872	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2516	ALL	635166.2	4271872	1.31E-07	1YrCancerD	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2517	ALL	635326.2	4271872	3.92E-07	1YrCancerD	3.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2518	ALL	635006.2	4271912	6.59E-08	1YrCancerD	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2519	ALL	635046.2	4271912	8.21E-08	1YrCancerD	8.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2520	ALL	635086.2	4271912	1.04E-07	1YrCancerD	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2521	ALL	635126.2	4271912	1.33E-07	1YrCancerD	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2522	ALL	635166.2	4271912	1.74E-07	1YrCancerD	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2523	ALL	635206.2	4271912	2.21E-07	1YrCancerD	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2524	ALL	635246.2	4271912	2.85E-07	1YrCancerD	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2525	ALL	635286.2	4271912	4.03E-07	1YrCancerD	4.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2526	ALL	635126.2	4271952	1.81E-07	1YrCancerD	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2527	ALL	635166.2	4271952	2.42E-07	1YrCancerD	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2528	ALL	635206.2	4271952	3.10E-07	1YrCancerD	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2529	ALL	635246.2	4271952	4.27E-07	1YrCancerD	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2530	ALL	635166.2	4271992	3.65E-07	1YrCancerD	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2531	ALL	635206.2	4271992	4.75E-07	1YrCancerD	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2532	ALL	633966.2	4272112	4.78E-09	1YrCancerD	4.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2533	ALL	634966.2	4272232	3.02E-07	1YrCancerD	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2534	ALL	634966.2	4272272	2.81E-07	1YrCancerD	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2535	ALL	635006.2	4272272	7.23E-07	1YrCancerD	7.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2536	ALL	634926.2	4272312	1.24E-07	1YrCancerD	1.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2537	ALL	634966.2	4272312	2.17E-07	1YrCancerD	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2538	ALL	638685.9	4268031	4.11E-09	1YrCancerD	4.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2539	ALL	638365.9	4268071	3.84E-09	1YrCancerD	3.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2540	ALL	638405.9	4268071	3.89E-09	1YrCancerD	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2541	ALL	638685.9	4268071	4.36E-09	1YrCancerD	4.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2542	ALL	638205.9	4268111	3.73E-09	1YrCancerD	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2543	ALL	638245.9	4268111	3.78E-09	1YrCancerD	3.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2544	ALL	638285.9	4268111	3.83E-09	1YrCancerD	3.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2545	ALL	638325.9	4268111	3.89E-09	1YrCancerD	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2546	ALL	638365.9	4268111	3.95E-09	1YrCancerD	3.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2547	ALL	638405.9	4268111	4.02E-09	1YrCancerD	4.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2548	ALL	638685.9	4268111	4.67E-09	1YrCancerD	4.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2549	ALL	638925.9	4268111	5.09E-09	1YrCancerD	5.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2550	ALL	638965.9	4268111	4.95E-09	1YrCancerD	4.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2551	ALL	639005.9	4268111	4.80E-09	1YrCancerD	4.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2552	ALL	638085.9	4268151	3.69E-09	1YrCancerD	3.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2553	ALL	638125.9	4268151	3.73E-09	1YrCancerD	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2554	ALL	638165.9	4268151	3.77E-09	1YrCancerD	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2555	ALL	638205.9	4268151	3.82E-09	1YrCancerD	3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2556	ALL	638245.9	4268151	3.88E-09	1YrCancerD	3.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2557	ALL	638285.9	4268151	3.94E-09	1YrCancerD	3.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2558	ALL	638325.9	4268151	4.01E-09	1YrCancerD	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2559	ALL	638365.9	4268151	4.08E-09	1YrCancerD	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2560	ALL	638405.9	4268151	4.17E-09	1YrCancerD	4.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2561	ALL	638645.9	4268151	4.79E-09	1YrCancerD	4.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2562	ALL	638685.9	4268151	5.08E-09	1YrCancerD	5.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2563	ALL	638925.9	4268151	5.33E-09	1YrCancerD	5.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2564	ALL	638965.9	4268151	5.15E-09	1YrCancerD	5.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2565	ALL	639005.9	4268151	4.97E-09	1YrCancerD	4.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2566	ALL	638085.9	4268191	3.77E-09	1YrCancerD	3.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2567	ALL	638125.9	4268191	3.81E-09	1YrCancerD	3.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2568	ALL	638165.9	4268191	3.86E-09	1YrCancerD	3.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2569	ALL	638205.9	4268191	3.91E-09	1YrCancerD	3.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2570	ALL	638245.9	4268191	3.98E-09	1YrCancerD	3.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2571	ALL	638285.9	4268191	4.05E-09	1YrCancerD	4.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2572	ALL	638325.9	4268191	4.14E-09	1YrCancerD	4.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2573	ALL	638365.9	4268191	4.23E-09	1YrCancerD	4.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2574	ALL	638405.9	4268191	4.34E-09	1YrCancerD	4.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2575	ALL	638645.9	4268191	5.23E-09	1YrCancerD	5.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2576	ALL	638685.9	4268191	5.63E-09	1YrCancerD	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2577	ALL	638725.9	4268191	6.00E-09	1YrCancerD	6.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2578	ALL	638765.9	4268191	6.19E-09	1YrCancerD	6.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2579	ALL	638805.9	4268191	6.17E-09	1YrCancerD	6.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2580	ALL	638845.9	4268191	6.02E-09	1YrCancerD	6.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2581	ALL	638885.9	4268191	5.81E-09	1YrCancerD	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2582	ALL	638925.9	4268191	5.57E-09	1YrCancerD	5.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2583	ALL	638965.9	4268191	5.35E-09	1YrCancerD	5.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2584	ALL	639005.9	4268191	5.14E-09	1YrCancerD	5.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2585	ALL	638085.9	4268231	3.84E-09	1YrCancerD	3.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2586	ALL	638125.9	4268231	3.89E-09	1YrCancerD	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2587	ALL	638165.9	4268231	3.95E-09	1YrCancerD	3.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2588	ALL	638205.9	4268231	4.01E-09	1YrCancerD	4.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2589	ALL	638245.9	4268231	4.09E-09	1YrCancerD	4.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2590	ALL	638285.9	4268231	4.18E-09	1YrCancerD	4.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2591	ALL	638325.9	4268231	4.28E-09	1YrCancerD	4.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2592	ALL	638645.9	4268231	5.84E-09	1YrCancerD	5.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2593	ALL	638685.9	4268231	6.38E-09	1YrCancerD	6.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2594	ALL	638725.9	4268231	6.78E-09	1YrCancerD	6.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2595	ALL	638765.9	4268231	6.86E-09	1YrCancerD	6.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2596	ALL	638805.9	4268231	6.70E-09	1YrCancerD	6.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2597	ALL	638845.9	4268231	6.43E-09	1YrCancerD	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2598	ALL	638885.9	4268231	6.13E-09	1YrCancerD	6.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2599	ALL	638925.9	4268231	5.83E-09	1YrCancerD	5.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2600	ALL	638965.9	4268231	5.55E-09	1YrCancerD	5.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2601	ALL	639005.9	4268231	5.31E-09	1YrCancerD	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2602	ALL	638125.9	4268271	3.97E-09	1YrCancerD	3.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2603	ALL	638165.9	4268271	4.04E-09	1YrCancerD	4.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2604	ALL	638205.9	4268271	4.11E-09	1YrCancerD	4.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2605	ALL	638245.9	4268271	4.20E-09	1YrCancerD	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2606	ALL	638285.9	4268271	4.31E-09	1YrCancerD	4.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2607	ALL	638685.9	4268271	7.46E-09	1YrCancerD	7.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2608	ALL	638725.9	4268271	7.78E-09	1YrCancerD	7.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2609	ALL	638765.9	4268271	7.65E-09	1YrCancerD	7.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2610	ALL	638805.9	4268271	7.28E-09	1YrCancerD	7.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2611	ALL	638845.9	4268271	6.87E-09	1YrCancerD	6.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2612	ALL	638885.9	4268271	6.46E-09	1YrCancerD	6.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2613	ALL	638925.9	4268271	6.10E-09	1YrCancerD	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2614	ALL	638965.9	4268271	5.76E-09	1YrCancerD	5.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2615	ALL	639005.9	4268271	5.47E-09	1YrCancerD	5.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2616	ALL	638725.9	4268311	9.04E-09	1YrCancerD	9.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2617	ALL	638765.9	4268311	8.52E-09	1YrCancerD	8.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2618	ALL	638805.9	4268311	7.90E-09	1YrCancerD	7.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2619	ALL	638845.9	4268311	7.32E-09	1YrCancerD	7.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2620	ALL	638885.9	4268311	6.81E-09	1YrCancerD	6.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2621	ALL	638925.9	4268311	6.36E-09	1YrCancerD	6.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2622	ALL	638965.9	4268311	5.98E-09	1YrCancerD	5.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2623	ALL	639005.9	4268311	5.64E-09	1YrCancerD	5.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2624	ALL	638765.9	4268351	9.49E-09	1YrCancerD	9.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2625	ALL	638805.9	4268351	8.55E-09	1YrCancerD	8.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2626	ALL	638845.9	4268351	7.78E-09	1YrCancerD	7.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2627	ALL	638885.9	4268351	7.14E-09	1YrCancerD	7.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2628	ALL	638925.9	4268351	6.62E-09	1YrCancerD	6.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2629	ALL	638965.9	4268351	6.19E-09	1YrCancerD	6.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2630	ALL	639005.9	4268351	5.81E-09	1YrCancerD	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2631	ALL	638805.9	4268391	9.21E-09	1YrCancerD	9.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2632	ALL	638845.9	4268391	8.23E-09	1YrCancerD	8.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2633	ALL	638885.9	4268391	7.48E-09	1YrCancerD	7.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2634	ALL	638925.9	4268391	6.88E-09	1YrCancerD	6.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2635	ALL	638965.9	4268391	6.38E-09	1YrCancerD	6.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2636	ALL	639005.9	4268391	5.97E-09	1YrCancerD	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2637	ALL	638845.9	4268431	8.68E-09	1YrCancerD	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2638	ALL	638885.9	4268431	7.80E-09	1YrCancerD	7.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2639	ALL	638925.9	4268431	7.12E-09	1YrCancerD	7.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2640	ALL	638965.9	4268431	6.58E-09	1YrCancerD	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2641	ALL	639005.9	4268431	6.13E-09	1YrCancerD	6.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2642	ALL	638845.9	4268471	9.09E-09	1YrCancerD	9.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2643	ALL	638885.9	4268471	8.11E-09	1YrCancerD	8.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2644	ALL	638925.9	4268471	7.36E-09	1YrCancerD	7.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2645	ALL	638965.9	4268471	6.76E-09	1YrCancerD	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2646	ALL	639005.9	4268471	6.28E-09	1YrCancerD	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2647	ALL	638085.9	4268511	4.41E-09	1YrCancerD	4.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2648	ALL	638125.9	4268511	4.51E-09	1YrCancerD	4.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2649	ALL	638165.9	4268511	4.63E-09	1YrCancerD	4.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2650	ALL	638205.9	4268511	4.78E-09	1YrCancerD	4.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2651	ALL	638245.9	4268511	4.98E-09	1YrCancerD	4.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2652	ALL	638285.9	4268511	5.24E-09	1YrCancerD	5.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2653	ALL	638325.9	4268511	5.58E-09	1YrCancerD	5.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2654	ALL	638925.9	4268511	7.59E-09	1YrCancerD	7.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2655	ALL	638965.9	4268511	6.94E-09	1YrCancerD	6.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2656	ALL	639005.9	4268511	6.42E-09	1YrCancerD	6.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2657	ALL	638085.9	4268551	4.50E-09	1YrCancerD	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2658	ALL	638125.9	4268551	4.61E-09	1YrCancerD	4.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2659	ALL	638165.9	4268551	4.74E-09	1YrCancerD	4.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2660	ALL	638205.9	4268551	4.91E-09	1YrCancerD	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2661	ALL	638245.9	4268551	5.13E-09	1YrCancerD	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2662	ALL	638285.9	4268551	5.41E-09	1YrCancerD	5.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2663	ALL	638325.9	4268551	5.81E-09	1YrCancerD	5.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2664	ALL	638365.9	4268551	6.37E-09	1YrCancerD	6.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2665	ALL	638405.9	4268551	7.22E-09	1YrCancerD	7.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2666	ALL	638085.9	4268591	4.59E-09	1YrCancerD	4.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2667	ALL	638125.9	4268591	4.70E-09	1YrCancerD	4.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2668	ALL	638165.9	4268591	4.85E-09	1YrCancerD	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2669	ALL	638205.9	4268591	5.03E-09	1YrCancerD	5.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2670	ALL	638245.9	4268591	5.27E-09	1YrCancerD	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2671	ALL	638285.9	4268591	5.60E-09	1YrCancerD	5.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2672	ALL	638325.9	4268591	6.04E-09	1YrCancerD	6.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2673	ALL	638365.9	4268591	6.68E-09	1YrCancerD	6.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2674	ALL	638405.9	4268591	7.67E-09	1YrCancerD	7.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2675	ALL	638085.9	4268631	4.68E-09	1YrCancerD	4.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2676	ALL	638125.9	4268631	4.80E-09	1YrCancerD	4.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2677	ALL	638165.9	4268631	4.96E-09	1YrCancerD	4.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2678	ALL	638205.9	4268631	5.16E-09	1YrCancerD	5.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2679	ALL	638245.9	4268631	5.43E-09	1YrCancerD	5.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2680	ALL	638285.9	4268631	5.78E-09	1YrCancerD	5.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2681	ALL	638325.9	4268631	6.28E-09	1YrCancerD	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2682	ALL	638365.9	4268631	7.00E-09	1YrCancerD	7.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2683	ALL	638405.9	4268631	8.12E-09	1YrCancerD	8.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2684	ALL	638445.9	4268631	9.98E-09	1YrCancerD	9.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2685	ALL	638765.9	4268631	1.61E-08	1YrCancerD	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2686	ALL	638805.9	4268631	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2687	ALL	638845.9	4268631	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2688	ALL	638885.9	4268631	9.26E-09	1YrCancerD	9.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2689	ALL	638925.9	4268631	8.24E-09	1YrCancerD	8.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2690	ALL	638965.9	4268631	7.46E-09	1YrCancerD	7.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2691	ALL	639005.9	4268631	6.84E-09	1YrCancerD	6.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2692	ALL	638085.9	4268671	4.77E-09	1YrCancerD	4.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2693	ALL	638125.9	4268671	4.91E-09	1YrCancerD	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2694	ALL	638165.9	4268671	5.07E-09	1YrCancerD	5.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2695	ALL	638205.9	4268671	5.29E-09	1YrCancerD	5.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2696	ALL	638245.9	4268671	5.58E-09	1YrCancerD	5.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2697	ALL	638285.9	4268671	5.97E-09	1YrCancerD	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2698	ALL	638325.9	4268671	6.52E-09	1YrCancerD	6.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2699	ALL	638365.9	4268671	7.32E-09	1YrCancerD	7.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2700	ALL	638405.9	4268671	8.55E-09	1YrCancerD	8.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2701	ALL	638445.9	4268671	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2702	ALL	638645.9	4268671	7.51E-08	1YrCancerD	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2703	ALL	638685.9	4268671	3.69E-08	1YrCancerD	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2704	ALL	638725.9	4268671	2.35E-08	1YrCancerD	2.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2705	ALL	638765.9	4268671	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2706	ALL	638805.9	4268671	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2707	ALL	638845.9	4268671	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2708	ALL	638885.9	4268671	9.55E-09	1YrCancerD	9.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2709	ALL	638925.9	4268671	8.45E-09	1YrCancerD	8.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2710	ALL	638965.9	4268671	7.62E-09	1YrCancerD	7.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2711	ALL	639005.9	4268671	6.97E-09	1YrCancerD	6.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2712	ALL	638085.9	4268711	4.87E-09	1YrCancerD	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2713	ALL	638125.9	4268711	5.01E-09	1YrCancerD	5.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2714	ALL	638165.9	4268711	5.19E-09	1YrCancerD	5.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2715	ALL	638205.9	4268711	5.43E-09	1YrCancerD	5.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2716	ALL	638245.9	4268711	5.74E-09	1YrCancerD	5.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2717	ALL	638285.9	4268711	6.17E-09	1YrCancerD	6.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2718	ALL	638325.9	4268711	6.76E-09	1YrCancerD	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2719	ALL	638365.9	4268711	7.63E-09	1YrCancerD	7.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2720	ALL	638405.9	4268711	8.97E-09	1YrCancerD	8.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2721	ALL	638445.9	4268711	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2722	ALL	638645.9	4268711	7.62E-08	1YrCancerD	7.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2723	ALL	638685.9	4268711	3.81E-08	1YrCancerD	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2724	ALL	638725.9	4268711	2.45E-08	1YrCancerD	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2725	ALL	638765.9	4268711	1.78E-08	1YrCancerD	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2726	ALL	638805.9	4268711	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2727	ALL	638845.9	4268711	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2728	ALL	638885.9	4268711	9.84E-09	1YrCancerD	9.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2729	ALL	638925.9	4268711	8.67E-09	1YrCancerD	8.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2730	ALL	638965.9	4268711	7.79E-09	1YrCancerD	7.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2731	ALL	639005.9	4268711	7.11E-09	1YrCancerD	7.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2732	ALL	638085.9	4268751	4.96E-09	1YrCancerD	4.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2733	ALL	638125.9	4268751	5.11E-09	1YrCancerD	5.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2734	ALL	638165.9	4268751	5.31E-09	1YrCancerD	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2735	ALL	638205.9	4268751	5.56E-09	1YrCancerD	5.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2736	ALL	638245.9	4268751	5.90E-09	1YrCancerD	5.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2737	ALL	638285.9	4268751	6.36E-09	1YrCancerD	6.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2738	ALL	638325.9	4268751	7.00E-09	1YrCancerD	7.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2739	ALL	638365.9	4268751	7.94E-09	1YrCancerD	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2740	ALL	638405.9	4268751	9.37E-09	1YrCancerD	9.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2741	ALL	638445.9	4268751	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2742	ALL	638645.9	4268751	7.69E-08	1YrCancerD	7.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2743	ALL	638685.9	4268751	3.89E-08	1YrCancerD	3.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2744	ALL	638725.9	4268751	2.53E-08	1YrCancerD	2.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2745	ALL	638765.9	4268751	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2746	ALL	638805.9	4268751	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2747	ALL	638845.9	4268751	1.19E-08	1YrCancerD	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2748	ALL	638885.9	4268751	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2749	ALL	638925.9	4268751	8.89E-09	1YrCancerD	8.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2750	ALL	638965.9	4268751	7.96E-09	1YrCancerD	7.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2751	ALL	639005.9	4268751	7.24E-09	1YrCancerD	7.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2752	ALL	638085.9	4268791	5.06E-09	1YrCancerD	5.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2753	ALL	638125.9	4268791	5.22E-09	1YrCancerD	5.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2754	ALL	638165.9	4268791	5.43E-09	1YrCancerD	5.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2755	ALL	638205.9	4268791	5.70E-09	1YrCancerD	5.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2756	ALL	638245.9	4268791	6.06E-09	1YrCancerD	6.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2757	ALL	638285.9	4268791	6.55E-09	1YrCancerD	6.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2758	ALL	638325.9	4268791	7.23E-09	1YrCancerD	7.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2759	ALL	638365.9	4268791	8.23E-09	1YrCancerD	8.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2760	ALL	638405.9	4268791	9.75E-09	1YrCancerD	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2761	ALL	638445.9	4268791	1.22E-08	1YrCancerD	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2762	ALL	638685.9	4268791	3.96E-08	1YrCancerD	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2763	ALL	638725.9	4268791	2.59E-08	1YrCancerD	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2764	ALL	638765.9	4268791	1.90E-08	1YrCancerD	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2765	ALL	638805.9	4268791	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2766	ALL	638845.9	4268791	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2767	ALL	638885.9	4268791	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2768	ALL	638925.9	4268791	9.12E-09	1YrCancerD	9.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2769	ALL	638965.9	4268791	8.14E-09	1YrCancerD	8.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2770	ALL	639005.9	4268791	7.38E-09	1YrCancerD	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2771	ALL	638085.9	4268831	5.16E-09	1YrCancerD	5.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2772	ALL	638125.9	4268831	5.33E-09	1YrCancerD	5.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2773	ALL	638165.9	4268831	5.55E-09	1YrCancerD	5.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2774	ALL	638205.9	4268831	5.83E-09	1YrCancerD	5.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2775	ALL	638245.9	4268831	6.22E-09	1YrCancerD	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2776	ALL	638285.9	4268831	6.73E-09	1YrCancerD	6.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2777	ALL	638325.9	4268831	7.46E-09	1YrCancerD	7.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2778	ALL	638365.9	4268831	8.51E-09	1YrCancerD	8.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2779	ALL	638405.9	4268831	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2780	ALL	638445.9	4268831	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2781	ALL	638725.9	4268831	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2782	ALL	638765.9	4268831	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2783	ALL	638805.9	4268831	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2784	ALL	638845.9	4268831	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2785	ALL	638885.9	4268831	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2786	ALL	638925.9	4268831	9.36E-09	1YrCancerD	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2787	ALL	638965.9	4268831	8.33E-09	1YrCancerD	8.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2788	ALL	639005.9	4268831	7.53E-09	1YrCancerD	7.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2789	ALL	638085.9	4268871	5.25E-09	1YrCancerD	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2790	ALL	638125.9	4268871	5.43E-09	1YrCancerD	5.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2791	ALL	638165.9	4268871	5.67E-09	1YrCancerD	5.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2792	ALL	638205.9	4268871	5.97E-09	1YrCancerD	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2793	ALL	638245.9	4268871	6.37E-09	1YrCancerD	6.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2794	ALL	638285.9	4268871	6.92E-09	1YrCancerD	6.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2795	ALL	638325.9	4268871	7.68E-09	1YrCancerD	7.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2796	ALL	638365.9	4268871	8.78E-09	1YrCancerD	8.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2797	ALL	638405.9	4268871	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2798	ALL	638445.9	4268871	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2799	ALL	638485.9	4268871	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2800	ALL	638725.9	4268871	2.68E-08	1YrCancerD	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2801	ALL	638765.9	4268871	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2802	ALL	638805.9	4268871	1.57E-08	1YrCancerD	1.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2803	ALL	638845.9	4268871	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2804	ALL	638885.9	4268871	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2805	ALL	638925.9	4268871	9.58E-09	1YrCancerD	9.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2806	ALL	638965.9	4268871	8.51E-09	1YrCancerD	8.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2807	ALL	639005.9	4268871	7.67E-09	1YrCancerD	7.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2808	ALL	638085.9	4268911	5.36E-09	1YrCancerD	5.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2809	ALL	638125.9	4268911	5.54E-09	1YrCancerD	5.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2810	ALL	638165.9	4268911	5.79E-09	1YrCancerD	5.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2811	ALL	638205.9	4268911	6.10E-09	1YrCancerD	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2812	ALL	638245.9	4268911	6.52E-09	1YrCancerD	6.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2813	ALL	638285.9	4268911	7.10E-09	1YrCancerD	7.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2814	ALL	638325.9	4268911	7.89E-09	1YrCancerD	7.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2815	ALL	638365.9	4268911	9.03E-09	1YrCancerD	9.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2816	ALL	638405.9	4268911	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2817	ALL	638445.9	4268911	1.33E-08	1YrCancerD	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2818	ALL	638485.9	4268911	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2819	ALL	638525.9	4268911	2.64E-08	1YrCancerD	2.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2820	ALL	638565.9	4268911	5.38E-08	1YrCancerD	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2821	ALL	638645.9	4268911	7.79E-08	1YrCancerD	7.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2822	ALL	638685.9	4268911	4.07E-08	1YrCancerD	4.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2823	ALL	638725.9	4268911	2.71E-08	1YrCancerD	2.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2824	ALL	638765.9	4268911	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2825	ALL	638805.9	4268911	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2826	ALL	638845.9	4268911	1.32E-08	1YrCancerD	1.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2827	ALL	638885.9	4268911	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2828	ALL	638925.9	4268911	9.79E-09	1YrCancerD	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2829	ALL	638965.9	4268911	8.68E-09	1YrCancerD	8.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2830	ALL	639005.9	4268911	7.81E-09	1YrCancerD	7.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2831	ALL	638645.9	4268951	7.78E-08	1YrCancerD	7.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2832	ALL	638685.9	4268951	4.09E-08	1YrCancerD	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2833	ALL	638725.9	4268951	2.74E-08	1YrCancerD	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2834	ALL	638765.9	4268951	2.05E-08	1YrCancerD	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2835	ALL	638805.9	4268951	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2836	ALL	638845.9	4268951	1.35E-08	1YrCancerD	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2837	ALL	638885.9	4268951	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2838	ALL	638925.9	4268951	9.99E-09	1YrCancerD	9.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2839	ALL	638965.9	4268951	8.85E-09	1YrCancerD	8.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2840	ALL	639005.9	4268951	7.95E-09	1YrCancerD	7.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2841	ALL	638845.9	4268991	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2842	ALL	638885.9	4268991	1.17E-08	1YrCancerD	1.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2843	ALL	638925.9	4268991	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2844	ALL	638965.9	4268991	9.01E-09	1YrCancerD	9.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2845	ALL	639005.9	4268991	8.08E-09	1YrCancerD	8.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2846	ALL	638165.9	4269271	6.86E-09	1YrCancerD	6.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2847	ALL	638205.9	4269271	7.26E-09	1YrCancerD	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2848	ALL	638245.9	4269271	7.79E-09	1YrCancerD	7.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2849	ALL	638285.9	4269271	8.47E-09	1YrCancerD	8.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2850	ALL	638325.9	4269271	9.36E-09	1YrCancerD	9.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2851	ALL	638365.9	4269271	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2852	ALL	637965.9	4269311	5.93E-09	1YrCancerD	5.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2853	ALL	638005.9	4269311	6.05E-09	1YrCancerD	6.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2854	ALL	638045.9	4269311	6.20E-09	1YrCancerD	6.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2855	ALL	638085.9	4269311	6.40E-09	1YrCancerD	6.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2856	ALL	638125.9	4269311	6.65E-09	1YrCancerD	6.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2857	ALL	638165.9	4269311	6.97E-09	1YrCancerD	6.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2858	ALL	638205.9	4269311	7.38E-09	1YrCancerD	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2859	ALL	638245.9	4269311	7.91E-09	1YrCancerD	7.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2860	ALL	638285.9	4269311	8.58E-09	1YrCancerD	8.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2861	ALL	638325.9	4269311	9.47E-09	1YrCancerD	9.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2862	ALL	638365.9	4269311	1.07E-08	1YrCancerD	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2863	ALL	638405.9	4269311	1.24E-08	1YrCancerD	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2864	ALL	638445.9	4269311	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2865	ALL	638485.9	4269311	1.94E-08	1YrCancerD	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2866	ALL	638525.9	4269311	2.83E-08	1YrCancerD	2.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2867	ALL	637925.9	4269351	5.95E-09	1YrCancerD	5.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2868	ALL	637965.9	4269351	6.04E-09	1YrCancerD	6.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2869	ALL	638005.9	4269351	6.16E-09	1YrCancerD	6.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2870	ALL	638125.9	4269351	6.76E-09	1YrCancerD	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2871	ALL	638165.9	4269351	7.09E-09	1YrCancerD	7.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2872	ALL	638205.9	4269351	7.50E-09	1YrCancerD	7.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2873	ALL	638245.9	4269351	8.02E-09	1YrCancerD	8.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2874	ALL	638285.9	4269351	8.70E-09	1YrCancerD	8.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2875	ALL	638325.9	4269351	9.59E-09	1YrCancerD	9.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2876	ALL	638485.9	4269351	1.95E-08	1YrCancerD	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2877	ALL	638525.9	4269351	2.85E-08	1YrCancerD	2.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2878	ALL	638565.9	4269351	5.70E-08	1YrCancerD	5.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2879	ALL	637885.9	4269391	5.99E-09	1YrCancerD	5.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2880	ALL	637925.9	4269391	6.06E-09	1YrCancerD	6.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2881	ALL	638005.9	4269391	6.26E-09	1YrCancerD	6.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2882	ALL	638045.9	4269391	6.42E-09	1YrCancerD	6.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2883	ALL	638085.9	4269391	6.62E-09	1YrCancerD	6.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2884	ALL	638125.9	4269391	6.87E-09	1YrCancerD	6.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2885	ALL	638165.9	4269391	7.20E-09	1YrCancerD	7.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2886	ALL	638205.9	4269391	7.61E-09	1YrCancerD	7.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2887	ALL	638245.9	4269391	8.13E-09	1YrCancerD	8.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2888	ALL	638285.9	4269391	8.81E-09	1YrCancerD	8.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2889	ALL	638325.9	4269391	9.69E-09	1YrCancerD	9.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2890	ALL	638365.9	4269391	1.09E-08	1YrCancerD	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2891	ALL	638405.9	4269391	1.26E-08	1YrCancerD	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2892	ALL	638445.9	4269391	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2893	ALL	638485.9	4269391	1.96E-08	1YrCancerD	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2894	ALL	638725.9	4269391	2.91E-08	1YrCancerD	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2895	ALL	638765.9	4269391	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2896	ALL	638805.9	4269391	1.79E-08	1YrCancerD	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2897	ALL	637845.9	4269431	6.06E-09	1YrCancerD	6.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2898	ALL	637885.9	4269431	6.10E-09	1YrCancerD	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2899	ALL	637965.9	4269431	6.26E-09	1YrCancerD	6.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2900	ALL	638005.9	4269431	6.37E-09	1YrCancerD	6.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2901	ALL	638045.9	4269431	6.53E-09	1YrCancerD	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2902	ALL	638085.9	4269431	6.73E-09	1YrCancerD	6.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2903	ALL	638125.9	4269431	6.98E-09	1YrCancerD	6.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2904	ALL	638165.9	4269431	7.31E-09	1YrCancerD	7.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2905	ALL	638205.9	4269431	7.72E-09	1YrCancerD	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2906	ALL	638245.9	4269431	8.24E-09	1YrCancerD	8.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2907	ALL	638285.9	4269431	8.91E-09	1YrCancerD	8.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2908	ALL	638325.9	4269431	9.80E-09	1YrCancerD	9.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2909	ALL	638365.9	4269431	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2910	ALL	638405.9	4269431	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2911	ALL	638445.9	4269431	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2912	ALL	638485.9	4269431	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2913	ALL	638525.9	4269431	2.87E-08	1YrCancerD	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2914	ALL	638565.9	4269431	5.73E-08	1YrCancerD	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2915	ALL	638765.9	4269431	2.23E-08	1YrCancerD	2.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2916	ALL	638805.9	4269431	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2917	ALL	638845.9	4269431	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2918	ALL	638885.9	4269431	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2919	ALL	638925.9	4269431	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2920	ALL	637805.9	4269471	6.16E-09	1YrCancerD	6.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2921	ALL	637885.9	4269471	6.22E-09	1YrCancerD	6.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2922	ALL	637925.9	4269471	6.28E-09	1YrCancerD	6.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2923	ALL	637965.9	4269471	6.37E-09	1YrCancerD	6.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2924	ALL	638005.9	4269471	6.49E-09	1YrCancerD	6.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2925	ALL	638045.9	4269471	6.64E-09	1YrCancerD	6.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2926	ALL	638085.9	4269471	6.84E-09	1YrCancerD	6.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2927	ALL	638125.9	4269471	7.10E-09	1YrCancerD	7.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2928	ALL	638165.9	4269471	7.42E-09	1YrCancerD	7.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2929	ALL	638205.9	4269471	7.83E-09	1YrCancerD	7.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2930	ALL	638245.9	4269471	8.35E-09	1YrCancerD	8.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2931	ALL	638285.9	4269471	9.02E-09	1YrCancerD	9.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2932	ALL	638325.9	4269471	9.90E-09	1YrCancerD	9.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2933	ALL	638365.9	4269471	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2934	ALL	638405.9	4269471	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2935	ALL	638445.9	4269471	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2936	ALL	638485.9	4269471	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2937	ALL	638525.9	4269471	2.88E-08	1YrCancerD	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2938	ALL	638565.9	4269471	5.75E-08	1YrCancerD	5.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2939	ALL	638725.9	4269471	2.93E-08	1YrCancerD	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2940	ALL	638845.9	4269471	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2941	ALL	638885.9	4269471	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2942	ALL	638925.9	4269471	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2943	ALL	638965.9	4269471	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2944	ALL	639005.9	4269471	8.92E-09	1YrCancerD	8.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2945	ALL	637765.9	4269511	6.29E-09	1YrCancerD	6.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2946	ALL	637805.9	4269511	6.29E-09	1YrCancerD	6.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2947	ALL	637845.9	4269511	6.31E-09	1YrCancerD	6.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2948	ALL	637885.9	4269511	6.35E-09	1YrCancerD	6.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2949	ALL	637925.9	4269511	6.41E-09	1YrCancerD	6.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2950	ALL	637965.9	4269511	6.49E-09	1YrCancerD	6.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2951	ALL	638005.9	4269511	6.61E-09	1YrCancerD	6.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2952	ALL	638045.9	4269511	6.76E-09	1YrCancerD	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2953	ALL	638085.9	4269511	6.96E-09	1YrCancerD	6.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2954	ALL	638125.9	4269511	7.21E-09	1YrCancerD	7.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2955	ALL	638165.9	4269511	7.53E-09	1YrCancerD	7.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2956	ALL	638205.9	4269511	7.93E-09	1YrCancerD	7.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2957	ALL	638245.9	4269511	8.45E-09	1YrCancerD	8.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2958	ALL	638285.9	4269511	9.12E-09	1YrCancerD	9.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2959	ALL	638325.9	4269511	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2960	ALL	638365.9	4269511	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2961	ALL	638405.9	4269511	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2962	ALL	638445.9	4269511	1.55E-08	1YrCancerD	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2963	ALL	638485.9	4269511	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2964	ALL	638525.9	4269511	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2965	ALL	638565.9	4269511	5.75E-08	1YrCancerD	5.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2966	ALL	638725.9	4269511	2.95E-08	1YrCancerD	2.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2967	ALL	638765.9	4269511	2.25E-08	1YrCancerD	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2968	ALL	638805.9	4269511	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2969	ALL	638845.9	4269511	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2970	ALL	638885.9	4269511	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2971	ALL	638925.9	4269511	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2972	ALL	638965.9	4269511	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2973	ALL	639005.9	4269511	8.91E-09	1YrCancerD	8.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2974	ALL	637765.9	4269551	6.43E-09	1YrCancerD	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2975	ALL	637805.9	4269551	6.43E-09	1YrCancerD	6.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2976	ALL	637845.9	4269551	6.44E-09	1YrCancerD	6.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2977	ALL	637885.9	4269551	6.48E-09	1YrCancerD	6.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2978	ALL	637925.9	4269551	6.53E-09	1YrCancerD	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2979	ALL	637965.9	4269551	6.62E-09	1YrCancerD	6.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2980	ALL	638005.9	4269551	6.73E-09	1YrCancerD	6.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2981	ALL	638045.9	4269551	6.88E-09	1YrCancerD	6.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2982	ALL	638085.9	4269551	7.07E-09	1YrCancerD	7.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2983	ALL	638125.9	4269551	7.32E-09	1YrCancerD	7.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2984	ALL	638165.9	4269551	7.64E-09	1YrCancerD	7.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2985	ALL	638205.9	4269551	8.04E-09	1YrCancerD	8.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2986	ALL	638245.9	4269551	8.56E-09	1YrCancerD	8.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2987	ALL	638285.9	4269551	9.23E-09	1YrCancerD	9.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2988	ALL	638325.9	4269551	1.01E-08	1YrCancerD	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2989	ALL	638365.9	4269551	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2990	ALL	638405.9	4269551	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2991	ALL	638445.9	4269551	1.56E-08	1YrCancerD	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2992	ALL	638485.9	4269551	1.99E-08	1YrCancerD	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2993	ALL	638525.9	4269551	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2994	ALL	638565.9	4269551	5.71E-08	1YrCancerD	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2995	ALL	638725.9	4269551	2.97E-08	1YrCancerD	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2996	ALL	638765.9	4269551	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2997	ALL	638805.9	4269551	1.83E-08	1YrCancerD	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2998	ALL	638885.9	4269551	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2999	ALL	638925.9	4269551	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3000	ALL	638965.9	4269551	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3001	ALL	639005.9	4269551	8.90E-09	1YrCancerD	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3002	ALL	637725.9	4269591	6.61E-09	1YrCancerD	6.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3003	ALL	637805.9	4269591	6.58E-09	1YrCancerD	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3004	ALL	637845.9	4269591	6.59E-09	1YrCancerD	6.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3005	ALL	637885.9	4269591	6.62E-09	1YrCancerD	6.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3006	ALL	637925.9	4269591	6.67E-09	1YrCancerD	6.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3007	ALL	638005.9	4269591	6.85E-09	1YrCancerD	6.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3008	ALL	638045.9	4269591	7.00E-09	1YrCancerD	7.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3009	ALL	638085.9	4269591	7.19E-09	1YrCancerD	7.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3010	ALL	638125.9	4269591	7.44E-09	1YrCancerD	7.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3011	ALL	638165.9	4269591	7.75E-09	1YrCancerD	7.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3012	ALL	638205.9	4269591	8.15E-09	1YrCancerD	8.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3013	ALL	638245.9	4269591	8.67E-09	1YrCancerD	8.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3014	ALL	638285.9	4269591	9.33E-09	1YrCancerD	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3015	ALL	638325.9	4269591	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3016	ALL	638365.9	4269591	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3017	ALL	638405.9	4269591	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3018	ALL	638485.9	4269591	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3019	ALL	638565.9	4269591	5.63E-08	1YrCancerD	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3020	ALL	638725.9	4269591	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3021	ALL	637964.9	4269592	6.74E-09	1YrCancerD	6.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3022	ALL	638645.4	4269592	8.25E-08	1YrCancerD	8.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3023	ALL	638685.4	4269592	4.38E-08	1YrCancerD	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3024	ALL	638765.4	4269592	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3025	ALL	638805.4	4269592	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3026	ALL	638885.4	4269592	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3027	ALL	638925.4	4269592	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3028	ALL	638965.4	4269592	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3029	ALL	639005.4	4269592	8.88E-09	1YrCancerD	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3030	ALL	638645.4	4269632	8.40E-08	1YrCancerD	8.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3031	ALL	638685.4	4269632	4.42E-08	1YrCancerD	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3032	ALL	638725.4	4269632	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3033	ALL	638765.4	4269632	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3034	ALL	638805.4	4269632	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3035	ALL	638845.4	4269632	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3036	ALL	638885.4	4269632	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3037	ALL	638925.4	4269632	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3038	ALL	638965.4	4269632	9.96E-09	1YrCancerD	9.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3039	ALL	639005.4	4269632	8.84E-09	1YrCancerD	8.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3040	ALL	638645.4	4269672	8.55E-08	1YrCancerD	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3041	ALL	638685.4	4269672	4.47E-08	1YrCancerD	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3042	ALL	638725.4	4269672	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3043	ALL	638765.4	4269672	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3044	ALL	638805.4	4269672	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3045	ALL	638845.4	4269672	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3046	ALL	638925.4	4269672	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3047	ALL	638965.4	4269672	9.90E-09	1YrCancerD	9.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3048	ALL	639005.4	4269672	8.79E-09	1YrCancerD	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3049	ALL	638645.4	4269712	8.72E-08	1YrCancerD	8.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3050	ALL	638685.4	4269712	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3051	ALL	638725.4	4269712	3.06E-08	1YrCancerD	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3052	ALL	638765.4	4269712	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3053	ALL	638805.4	4269712	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3054	ALL	638845.4	4269712	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3055	ALL	638925.4	4269712	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3056	ALL	638965.4	4269712	9.83E-09	1YrCancerD	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3057	ALL	639005.4	4269712	8.73E-09	1YrCancerD	8.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3058	ALL	638645.4	4269752	8.86E-08	1YrCancerD	8.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3059	ALL	638685.4	4269752	4.55E-08	1YrCancerD	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3060	ALL	638725.4	4269752	3.07E-08	1YrCancerD	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3061	ALL	638765.4	4269752	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3062	ALL	638805.4	4269752	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3063	ALL	638845.4	4269752	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3064	ALL	638925.4	4269752	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3065	ALL	638965.4	4269752	9.75E-09	1YrCancerD	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3066	ALL	639005.4	4269752	8.66E-09	1YrCancerD	8.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3067	ALL	638645.4	4269792	8.94E-08	1YrCancerD	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3068	ALL	638685.4	4269792	4.58E-08	1YrCancerD	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3069	ALL	638725.4	4269792	3.09E-08	1YrCancerD	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3070	ALL	638765.4	4269792	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3071	ALL	638805.4	4269792	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3072	ALL	638845.4	4269792	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3073	ALL	638885.4	4269792	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3074	ALL	638925.4	4269792	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3075	ALL	638965.4	4269792	9.65E-09	1YrCancerD	9.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3076	ALL	639005.4	4269792	8.57E-09	1YrCancerD	8.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3077	ALL	638645.4	4269832	8.97E-08	1YrCancerD	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3078	ALL	638685.4	4269832	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3079	ALL	638725.4	4269832	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3080	ALL	638765.4	4269832	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3081	ALL	638805.4	4269832	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3082	ALL	638845.4	4269832	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3083	ALL	638885.4	4269832	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3084	ALL	638965.4	4269832	9.55E-09	1YrCancerD	9.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3085	ALL	639005.4	4269832	8.48E-09	1YrCancerD	8.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3086	ALL	638645.4	4269872	8.99E-08	1YrCancerD	8.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3087	ALL	638685.4	4269872	4.62E-08	1YrCancerD	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3088	ALL	638725.4	4269872	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3089	ALL	638765.4	4269872	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3090	ALL	638805.4	4269872	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3091	ALL	638845.4	4269872	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3092	ALL	638885.4	4269872	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3093	ALL	638965.4	4269872	9.42E-09	1YrCancerD	9.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3094	ALL	639005.4	4269872	8.38E-09	1YrCancerD	8.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3095	ALL	638645.4	4269912	9.01E-08	1YrCancerD	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3096	ALL	638685.4	4269912	4.63E-08	1YrCancerD	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3097	ALL	638725.4	4269912	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3098	ALL	638765.4	4269912	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3099	ALL	638805.4	4269912	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3100	ALL	638845.4	4269912	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3101	ALL	638885.4	4269912	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3102	ALL	638965.4	4269912	9.29E-09	1YrCancerD	9.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3103	ALL	639005.4	4269912	8.27E-09	1YrCancerD	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3104	ALL	638645.4	4269952	9.03E-08	1YrCancerD	9.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3105	ALL	638685.4	4269952	4.64E-08	1YrCancerD	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3106	ALL	638725.4	4269952	3.08E-08	1YrCancerD	3.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3107	ALL	638765.4	4269952	2.26E-08	1YrCancerD	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3108	ALL	638805.4	4269952	1.76E-08	1YrCancerD	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3109	ALL	638845.4	4269952	1.44E-08	1YrCancerD	1.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3110	ALL	638885.4	4269952	1.21E-08	1YrCancerD	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3111	ALL	638925.4	4269952	1.04E-08	1YrCancerD	1.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3112	ALL	639005.4	4269952	8.15E-09	1YrCancerD	8.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3113	ALL	638645.4	4269992	9.06E-08	1YrCancerD	9.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3114	ALL	638685.4	4269992	4.63E-08	1YrCancerD	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3115	ALL	638725.4	4269992	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3116	ALL	638765.4	4269992	2.22E-08	1YrCancerD	2.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3117	ALL	638805.4	4269992	1.73E-08	1YrCancerD	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3118	ALL	638845.4	4269992	1.41E-08	1YrCancerD	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3119	ALL	638885.4	4269992	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3120	ALL	638925.4	4269992	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3121	ALL	638965.4	4269992	8.99E-09	1YrCancerD	8.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3122	ALL	638645.4	4270032	9.09E-08	1YrCancerD	9.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3123	ALL	638685.4	4270032	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3124	ALL	638725.4	4270032	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3125	ALL	638765.4	4270032	2.16E-08	1YrCancerD	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3126	ALL	638805.4	4270032	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3127	ALL	638845.4	4270032	1.37E-08	1YrCancerD	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3128	ALL	638885.4	4270032	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3129	ALL	638925.4	4270032	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3130	ALL	638965.4	4270032	8.82E-09	1YrCancerD	8.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3131	ALL	639005.4	4270032	7.87E-09	1YrCancerD	7.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3132	ALL	638645.4	4270072	9.11E-08	1YrCancerD	9.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3133	ALL	638685.4	4270072	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3134	ALL	638725.4	4270072	2.89E-08	1YrCancerD	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3135	ALL	638765.4	4270072	2.09E-08	1YrCancerD	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3136	ALL	638805.4	4270072	1.63E-08	1YrCancerD	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3137	ALL	638845.4	4270072	1.34E-08	1YrCancerD	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3138	ALL	638885.4	4270072	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3139	ALL	638925.4	4270072	9.79E-09	1YrCancerD	9.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3140	ALL	638965.4	4270072	8.63E-09	1YrCancerD	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3141	ALL	639005.4	4270072	7.72E-09	1YrCancerD	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3142	ALL	638645.4	4270112	8.99E-08	1YrCancerD	8.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3143	ALL	638685.4	4270112	4.34E-08	1YrCancerD	4.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3144	ALL	638725.4	4270112	2.77E-08	1YrCancerD	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3145	ALL	638765.4	4270112	2.01E-08	1YrCancerD	2.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3146	ALL	638805.4	4270112	1.58E-08	1YrCancerD	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3147	ALL	638845.4	4270112	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3148	ALL	638885.4	4270112	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3149	ALL	638925.4	4270112	9.54E-09	1YrCancerD	9.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3150	ALL	638965.4	4270112	8.43E-09	1YrCancerD	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3151	ALL	639005.4	4270112	7.56E-09	1YrCancerD	7.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3152	ALL	638645.4	4270152	8.47E-08	1YrCancerD	8.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3153	ALL	638685.4	4270152	4.06E-08	1YrCancerD	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3154	ALL	638725.4	4270152	2.61E-08	1YrCancerD	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3155	ALL	638765.4	4270152	1.92E-08	1YrCancerD	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3156	ALL	638805.4	4270152	1.51E-08	1YrCancerD	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3157	ALL	638845.4	4270152	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3158	ALL	638885.4	4270152	1.06E-08	1YrCancerD	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3159	ALL	638925.4	4270152	9.28E-09	1YrCancerD	9.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3160	ALL	638965.4	4270152	8.22E-09	1YrCancerD	8.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3161	ALL	639005.4	4270152	7.39E-09	1YrCancerD	7.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3162	ALL	638645.4	4270192	7.29E-08	1YrCancerD	7.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3163	ALL	638685.4	4270192	3.69E-08	1YrCancerD	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3164	ALL	638725.4	4270192	2.44E-08	1YrCancerD	2.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3165	ALL	638765.4	4270192	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3166	ALL	638805.4	4270192	1.45E-08	1YrCancerD	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3167	ALL	638845.4	4270192	1.20E-08	1YrCancerD	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3168	ALL	638965.4	4270192	8.01E-09	1YrCancerD	8.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3169	ALL	639005.4	4270192	7.22E-09	1YrCancerD	7.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3170	ALL	638845.4	4270232	1.15E-08	1YrCancerD	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3171	ALL	638885.4	4270232	9.95E-09	1YrCancerD	9.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3172	ALL	638925.4	4270232	8.74E-09	1YrCancerD	8.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3173	ALL	638965.4	4270232	7.80E-09	1YrCancerD	7.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3174	ALL	639005.4	4270232	7.04E-09	1YrCancerD	7.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3175	ALL	638645.4	4270272	4.48E-08	1YrCancerD	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3176	ALL	638725.4	4270272	2.06E-08	1YrCancerD	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3177	ALL	638765.4	4270272	1.60E-08	1YrCancerD	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3178	ALL	638805.4	4270272	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3179	ALL	638845.4	4270272	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3180	ALL	639005.4	4270272	6.87E-09	1YrCancerD	6.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3181	ALL	638645.4	4270312	3.49E-08	1YrCancerD	3.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3182	ALL	638725.4	4270312	1.87E-08	1YrCancerD	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3183	ALL	638765.4	4270312	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3184	ALL	638925.4	4270312	8.20E-09	1YrCancerD	8.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3185	ALL	638965.4	4270312	7.38E-09	1YrCancerD	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3186	ALL	639005.4	4270312	6.70E-09	1YrCancerD	6.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3187	ALL	638645.4	4270352	2.80E-08	1YrCancerD	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3188	ALL	638685.4	4270352	2.14E-08	1YrCancerD	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3189	ALL	638725.4	4270352	1.70E-08	1YrCancerD	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3190	ALL	638765.4	4270352	1.39E-08	1YrCancerD	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3191	ALL	638805.4	4270352	1.18E-08	1YrCancerD	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3192	ALL	638925.4	4270352	7.94E-09	1YrCancerD	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3193	ALL	638965.4	4270352	7.17E-09	1YrCancerD	7.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3194	ALL	639005.4	4270352	6.53E-09	1YrCancerD	6.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3195	ALL	638645.4	4270392	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3008	ALL	638045.9	4269591	7.00E-09	1YrCancerD	7.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3009	ALL	638085.9	4269591	7.19E-09	1YrCancerD	7.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3010	ALL	638125.9	4269591	7.44E-09	1YrCancerD	7.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3011	ALL	638165.9	4269591	7.75E-09	1YrCancerD	7.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3012	ALL	638205.9	4269591	8.15E-09	1YrCancerD	8.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3013	ALL	638245.9	4269591	8.67E-09	1YrCancerD	8.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3014	ALL	638285.9	4269591	9.33E-09	1YrCancerD	9.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3015	ALL	638325.9	4269591	1.02E-08	1YrCancerD	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3016	ALL	638365.9	4269591	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3017	ALL	638405.9	4269591	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3018	ALL	638485.9	4269591	2.00E-08	1YrCancerD	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3019	ALL	638565.9	4269591	5.63E-08	1YrCancerD	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3020	ALL	638725.9	4269591	2.98E-08	1YrCancerD	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3021	ALL	637964.9	4269592	6.74E-09	1YrCancerD	6.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3022	ALL	638645.4	4269592	8.25E-08	1YrCancerD	8.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3023	ALL	638685.4	4269592	4.38E-08	1YrCancerD	4.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3024	ALL	638765.4	4269592	2.28E-08	1YrCancerD	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3025	ALL	638805.4	4269592	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3026	ALL	638885.4	4269592	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3027	ALL	638925.4	4269592	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3028	ALL	638965.4	4269592	1.00E-08	1YrCancerD	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3029	ALL	639005.4	4269592	8.88E-09	1YrCancerD	8.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3030	ALL	638645.4	4269632	8.40E-08	1YrCancerD	8.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3031	ALL	638685.4	4269632	4.42E-08	1YrCancerD	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3032	ALL	638725.4	4269632	3.02E-08	1YrCancerD	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3033	ALL	638765.4	4269632	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3034	ALL	638805.4	4269632	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3035	ALL	638845.4	4269632	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3036	ALL	638885.4	4269632	1.31E-08	1YrCancerD	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3037	ALL	638925.4	4269632	1.14E-08	1YrCancerD	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3038	ALL	638965.4	4269632	9.96E-09	1YrCancerD	9.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3039	ALL	639005.4	4269632	8.84E-09	1YrCancerD	8.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3040	ALL	638645.4	4269672	8.55E-08	1YrCancerD	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3041	ALL	638685.4	4269672	4.47E-08	1YrCancerD	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3042	ALL	638725.4	4269672	3.04E-08	1YrCancerD	3.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3043	ALL	638765.4	4269672	2.30E-08	1YrCancerD	2.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3044	ALL	638805.4	4269672	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3045	ALL	638845.4	4269672	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3046	ALL	638925.4	4269672	1.13E-08	1YrCancerD	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3047	ALL	638965.4	4269672	9.90E-09	1YrCancerD	9.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3048	ALL	639005.4	4269672	8.79E-09	1YrCancerD	8.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3049	ALL	638645.4	4269712	8.72E-08	1YrCancerD	8.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3050	ALL	638685.4	4269712	4.51E-08	1YrCancerD	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3051	ALL	638725.4	4269712	3.06E-08	1YrCancerD	3.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3052	ALL	638765.4	4269712	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3053	ALL	638805.4	4269712	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3054	ALL	638845.4	4269712	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3055	ALL	638925.4	4269712	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3056	ALL	638965.4	4269712	9.83E-09	1YrCancerD	9.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3057	ALL	639005.4	4269712	8.73E-09	1YrCancerD	8.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3058	ALL	638645.4	4269752	8.86E-08	1YrCancerD	8.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3059	ALL	638685.4	4269752	4.55E-08	1YrCancerD	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3060	ALL	638725.4	4269752	3.07E-08	1YrCancerD	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3061	ALL	638765.4	4269752	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3062	ALL	638805.4	4269752	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3063	ALL	638845.4	4269752	1.53E-08	1YrCancerD	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3064	ALL	638925.4	4269752	1.11E-08	1YrCancerD	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3065	ALL	638965.4	4269752	9.75E-09	1YrCancerD	9.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3066	ALL	639005.4	4269752	8.66E-09	1YrCancerD	8.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3067	ALL	638645.4	4269792	8.94E-08	1YrCancerD	8.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3068	ALL	638685.4	4269792	4.58E-08	1YrCancerD	4.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3069	ALL	638725.4	4269792	3.09E-08	1YrCancerD	3.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3070	ALL	638765.4	4269792	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3071	ALL	638805.4	4269792	1.85E-08	1YrCancerD	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3072	ALL	638845.4	4269792	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3073	ALL	638885.4	4269792	1.28E-08	1YrCancerD	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3074	ALL	638925.4	4269792	1.10E-08	1YrCancerD	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3075	ALL	638965.4	4269792	9.65E-09	1YrCancerD	9.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3076	ALL	639005.4	4269792	8.57E-09	1YrCancerD	8.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3077	ALL	638645.4	4269832	8.97E-08	1YrCancerD	8.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3078	ALL	638685.4	4269832	4.60E-08	1YrCancerD	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3079	ALL	638725.4	4269832	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3080	ALL	638765.4	4269832	2.32E-08	1YrCancerD	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3081	ALL	638805.4	4269832	1.84E-08	1YrCancerD	1.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3082	ALL	638845.4	4269832	1.50E-08	1YrCancerD	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3083	ALL	638885.4	4269832	1.27E-08	1YrCancerD	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3084	ALL	638965.4	4269832	9.55E-09	1YrCancerD	9.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3085	ALL	639005.4	4269832	8.48E-09	1YrCancerD	8.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3086	ALL	638645.4	4269872	8.99E-08	1YrCancerD	8.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3087	ALL	638685.4	4269872	4.62E-08	1YrCancerD	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3088	ALL	638725.4	4269872	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3089	ALL	638765.4	4269872	2.31E-08	1YrCancerD	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3090	ALL	638805.4	4269872	1.82E-08	1YrCancerD	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3091	ALL	638845.4	4269872	1.49E-08	1YrCancerD	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3092	ALL	638885.4	4269872	1.25E-08	1YrCancerD	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3093	ALL	638965.4	4269872	9.42E-09	1YrCancerD	9.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3094	ALL	639005.4	4269872	8.38E-09	1YrCancerD	8.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3095	ALL	638645.4	4269912	9.01E-08	1YrCancerD	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3096	ALL	638685.4	4269912	4.63E-08	1YrCancerD	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3097	ALL	638725.4	4269912	3.10E-08	1YrCancerD	3.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3098	ALL	638765.4	4269912	2.29E-08	1YrCancerD	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3099	ALL	638805.4	4269912	1.80E-08	1YrCancerD	1.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3100	ALL	638845.4	4269912	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3101	ALL	638885.4	4269912	1.23E-08	1YrCancerD	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3290	ALL	638805.4	4270832	6.21E-09	1YrCancerD	6.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3291	ALL	638845.4	4270832	5.92E-09	1YrCancerD	5.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3292	ALL	638885.4	4270832	5.65E-09	1YrCancerD	5.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3293	ALL	638925.4	4270832	5.38E-09	1YrCancerD	5.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3294	ALL	638645.4	4270872	7.04E-09	1YrCancerD	7.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3295	ALL	638685.4	4270872	6.75E-09	1YrCancerD	6.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3296	ALL	638725.4	4270872	6.47E-09	1YrCancerD	6.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3297	ALL	638765.4	4270872	6.21E-09	1YrCancerD	6.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3298	ALL	638805.4	4270872	5.95E-09	1YrCancerD	5.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3299	ALL	638845.4	4270872	5.70E-09	1YrCancerD	5.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3300	ALL	638885.4	4270872	5.45E-09	1YrCancerD	5.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3301	ALL	638925.4	4270872	5.21E-09	1YrCancerD	5.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3302	ALL	638965.4	4270872	4.98E-09	1YrCancerD	4.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3303	ALL	638645.4	4270912	6.69E-09	1YrCancerD	6.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3304	ALL	638685.4	4270912	6.42E-09	1YrCancerD	6.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3305	ALL	638725.4	4270912	6.18E-09	1YrCancerD	6.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3306	ALL	638765.4	4270912	5.95E-09	1YrCancerD	5.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3307	ALL	638805.4	4270912	5.72E-09	1YrCancerD	5.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3308	ALL	638845.4	4270912	5.50E-09	1YrCancerD	5.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3309	ALL	638885.4	4270912	5.27E-09	1YrCancerD	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3310	ALL	638925.4	4270912	5.06E-09	1YrCancerD	5.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3311	ALL	638965.4	4270912	4.85E-09	1YrCancerD	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3312	ALL	639005.4	4270912	4.64E-09	1YrCancerD	4.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3313	ALL	638645.4	4270952	6.38E-09	1YrCancerD	6.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3314	ALL	638685.4	4270952	6.14E-09	1YrCancerD	6.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3315	ALL	638725.4	4270952	5.92E-09	1YrCancerD	5.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3316	ALL	638765.4	4270952	5.71E-09	1YrCancerD	5.71E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3317	ALL	638805.4	4270952	5.51E-09	1YrCancerD	5.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3318	ALL	638845.4	4270952	5.31E-09	1YrCancerD	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3319	ALL	638885.4	4270952	5.10E-09	1YrCancerD	5.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3320	ALL	638925.4	4270952	4.91E-09	1YrCancerD	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3321	ALL	638965.4	4270952	4.72E-09	1YrCancerD	4.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3322	ALL	639005.4	4270952	4.53E-09	1YrCancerD	4.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3323	ALL	638645.4	4270992	6.10E-09	1YrCancerD	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3324	ALL	638685.4	4270992	5.88E-09	1YrCancerD	5.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3325	ALL	638725.4	4270992	5.68E-09	1YrCancerD	5.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3326	ALL	638765.4	4270992	5.49E-09	1YrCancerD	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3327	ALL	638805.4	4270992	5.31E-09	1YrCancerD	5.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3328	ALL	638845.4	4270992	5.13E-09	1YrCancerD	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3329	ALL	638885.4	4270992	4.95E-09	1YrCancerD	4.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3330	ALL	638925.4	4270992	4.77E-09	1YrCancerD	4.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3331	ALL	638965.4	4270992	4.59E-09	1YrCancerD	4.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3332	ALL	639005.4	4270992	4.42E-09	1YrCancerD	4.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3333	ALL	638645.4	4271032	5.85E-09	1YrCancerD	5.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3334	ALL	638685.4	4271032	5.65E-09	1YrCancerD	5.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3335	ALL	638725.4	4271032	5.47E-09	1YrCancerD	5.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3336	ALL	638765.4	4271032	5.29E-09	1YrCancerD	5.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3337	ALL	638805.4	4271032	5.13E-09	1YrCancerD	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3338	ALL	638845.4	4271032	4.96E-09	1YrCancerD	4.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3339	ALL	638885.4	4271032	4.80E-09	1YrCancerD	4.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3340	ALL	638925.4	4271032	4.63E-09	1YrCancerD	4.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3341	ALL	638965.4	4271032	4.47E-09	1YrCancerD	4.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3342	ALL	639005.4	4271032	4.31E-09	1YrCancerD	4.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3343	ALL	638645.4	4271072	5.63E-09	1YrCancerD	5.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3344	ALL	638685.4	4271072	5.44E-09	1YrCancerD	5.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3345	ALL	638725.4	4271072	5.27E-09	1YrCancerD	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3346	ALL	638765.4	4271072	5.11E-09	1YrCancerD	5.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3347	ALL	638805.4	4271072	4.96E-09	1YrCancerD	4.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3348	ALL	638845.4	4271072	4.81E-09	1YrCancerD	4.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3349	ALL	638885.4	4271072	4.65E-09	1YrCancerD	4.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3350	ALL	638925.4	4271072	4.50E-09	1YrCancerD	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3351	ALL	638965.4	4271072	4.35E-09	1YrCancerD	4.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3352	ALL	639005.4	4271072	4.20E-09	1YrCancerD	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3353	ALL	638645.4	4271112	5.42E-09	1YrCancerD	5.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3354	ALL	638685.4	4271112	5.25E-09	1YrCancerD	5.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3355	ALL	638725.4	4271112	5.09E-09	1YrCancerD	5.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3356	ALL	638765.4	4271112	4.95E-09	1YrCancerD	4.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3357	ALL	638805.4	4271112	4.80E-09	1YrCancerD	4.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3358	ALL	638845.4	4271112	4.66E-09	1YrCancerD	4.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3359	ALL	638885.4	4271112	4.52E-09	1YrCancerD	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3360	ALL	638925.4	4271112	4.38E-09	1YrCancerD	4.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3361	ALL	638965.4	4271112	4.24E-09	1YrCancerD	4.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3362	ALL	639005.4	4271112	4.10E-09	1YrCancerD	4.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3363	ALL	638605.5	4270391	3.00E-08	1YrCancerD	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3364	ALL	638605.5	4270431	2.39E-08	1YrCancerD	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3365	ALL	638605.5	4270471	1.98E-08	1YrCancerD	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3366	ALL	638605.5	4270511	1.68E-08	1YrCancerD	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3367	ALL	638605.5	4270551	1.46E-08	1YrCancerD	1.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3368	ALL	638605.5	4270591	1.29E-08	1YrCancerD	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3369	ALL	638605.5	4270631	1.16E-08	1YrCancerD	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3370	ALL	638605.5	4270671	1.05E-08	1YrCancerD	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3371	ALL	638605.5	4270711	9.66E-09	1YrCancerD	9.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3372	ALL	638605.5	4270791	8.33E-09	1YrCancerD	8.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3373	ALL	638605.5	4270831	7.82E-09	1YrCancerD	7.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3374	ALL	638605.5	4270871	7.37E-09	1YrCancerD	7.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3375	ALL	638605.5	4270911	6.99E-09	1YrCancerD	6.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3376	ALL	638605.5	4270951	6.64E-09	1YrCancerD	6.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3377	ALL	638605.5	4270991	6.34E-09	1YrCancerD	6.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3378	ALL	638605.5	4271031	6.07E-09	1YrCancerD	6.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3379	ALL	638605.5	4271071	5.83E-09	1YrCancerD	5.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3380	ALL	638605.5	4271111	5.62E-09	1YrCancerD	5.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3381	ALL	637060.5	4271428	7.88E-08	1YrCancerD	7.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3382	ALL	637144.2	4271358	1.16E-07	1YrCancerD	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3383	ALL	637162.3	4271343	1.14E-07	1YrCancerD	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3384	ALL	637135.1	4271307	9.87E-08	1YrCancerD	9.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3385	ALL	637139.6	4271298	1.04E-07	1YrCancerD	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3386	ALL	637089.7	4271237	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3387	ALL	637081.2	4271244	9.46E-08	1YrCancerD	9.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3388	ALL	637067.6	4271230	7.19E-08	1YrCancerD	7.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3389	ALL	637059.8	4271239	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3390	ALL	637073.4	4271250	1.06E-07	1YrCancerD	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3391	ALL	637066.3	4271259	7.66E-08	1YrCancerD	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3392	ALL	637118.9	4271320	9.11E-08	1YrCancerD	9.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3393	ALL	637127.9	4271314	1.03E-07	1YrCancerD	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3394	ALL	637148.7	4271344	1.61E-07	1YrCancerD	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3395	ALL	637056.6	4271416	9.97E-08	1YrCancerD	9.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3396	ALL	637022.2	4271432	1.05E-07	1YrCancerD	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3397	ALL	636978.7	4271446	1.07E-07	1YrCancerD	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3398	ALL	636956	4271450	8.95E-08	1YrCancerD	8.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3399	ALL	636917.7	4271450	8.31E-08	1YrCancerD	8.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3400	ALL	636833.3	4271442	8.27E-08	1YrCancerD	8.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3401	ALL	636745.1	4271434	5.77E-08	1YrCancerD	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3402	ALL	636680.8	4271428	5.74E-08	1YrCancerD	5.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3403	ALL	636581.4	4271418	8.12E-08	1YrCancerD	8.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3404	ALL	636489.3	4271410	7.94E-08	1YrCancerD	7.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3405	ALL	636414.7	4271412	6.43E-08	1YrCancerD	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3406	ALL	636354.7	4271415	1.01E-07	1YrCancerD	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3407	ALL	636300.6	4271426	9.30E-08	1YrCancerD	9.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3408	ALL	636223.1	4271438	1.14E-07	1YrCancerD	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3409	ALL	636094.4	4271457	9.21E-08	1YrCancerD	9.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3410	ALL	636012.5	4271475	9.77E-08	1YrCancerD	9.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3411	ALL	635929.3	4271499	1.09E-07	1YrCancerD	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3412	ALL	635832.8	4271537	1.00E-07	1YrCancerD	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3413	ALL	635781.6	4271559	1.22E-07	1YrCancerD	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3414	ALL	635723.1	4271595	1.58E-07	1YrCancerD	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3415	ALL	635651.4	4271654	2.49E-07	1YrCancerD	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3416	ALL	635569.5	4271717	1.01E-06	1YrCancerD	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3417	ALL	635497.9	4271763	9.54E-07	1YrCancerD	9.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3418	ALL	635436.4	4271813	9.31E-07	1YrCancerD	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3419	ALL	635348.7	4271899	9.15E-07	1YrCancerD	9.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3420	ALL	635268.2	4271978	9.13E-07	1YrCancerD	9.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3421	ALL	635193.6	4272049	1.13E-06	1YrCancerD	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3422	ALL	635154.1	4272082	1.57E-06	1YrCancerD	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3423	ALL	635102.9	4272027	3.42E-07	1YrCancerD	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3424	ALL	635079.5	4272063	4.10E-07	1YrCancerD	4.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3425	ALL	635082.5	4272094	6.68E-07	1YrCancerD	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3426	ALL	635098.5	4272123	1.51E-06	1YrCancerD	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3427	ALL	634974.2	4272202	3.17E-07	1YrCancerD	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3428	ALL	634974.2	4272285	3.07E-07	1YrCancerD	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3429	ALL	634930.3	4272331	1.26E-07	1YrCancerD	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3430	ALL	634921.6	4272321	1.15E-07	1YrCancerD	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3431	ALL	634928.9	4272305	1.30E-07	1YrCancerD	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3432	ALL	634934.7	4272290	1.44E-07	1YrCancerD	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3433	ALL	634931.8	4272284	1.39E-07	1YrCancerD	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3434	ALL	634917.2	4272306	1.12E-07	1YrCancerD	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3435	ALL	634904	4272329	9.40E-08	1YrCancerD	9.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3436	ALL	634871.5	4272349	6.89E-08	1YrCancerD	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3437	ALL	634810	4272378	4.47E-08	1YrCancerD	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3438	ALL	634769.1	4272390	3.56E-08	1YrCancerD	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3439	ALL	634694.5	4272382	2.52E-08	1YrCancerD	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3440	ALL	634631.6	4272373	1.97E-08	1YrCancerD	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3441	ALL	634552.6	4272366	1.52E-08	1YrCancerD	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3442	ALL	634441.4	4272325	1.12E-08	1YrCancerD	1.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3443	ALL	634296.6	4272265	8.21E-09	1YrCancerD	8.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3444	ALL	634129.9	4272188	6.11E-09	1YrCancerD	6.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3445	ALL	634042.1	4272147	5.34E-09	1YrCancerD	5.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3446	ALL	633982.4	4272112	4.87E-09	1YrCancerD	4.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3447	ALL	633962.5	4272091	4.72E-09	1YrCancerD	4.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3448	ALL	633951.3	4272065	4.61E-09	1YrCancerD	4.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3449	ALL	633941.4	4272028	4.52E-09	1YrCancerD	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3450	ALL	633933.9	4272002	4.46E-09	1YrCancerD	4.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3451	ALL	633921.5	4271976	4.38E-09	1YrCancerD	4.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3452	ALL	633901.6	4271956	4.26E-09	1YrCancerD	4.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3453	ALL	633868	4271941	4.09E-09	1YrCancerD	4.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3454	ALL	633827	4271932	3.90E-09	1YrCancerD	3.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3455	ALL	633808.3	4271923	3.82E-09	1YrCancerD	3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3456	ALL	633788.4	4271908	3.73E-09	1YrCancerD	3.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3457	ALL	633774.8	4271891	3.66E-09	1YrCancerD	3.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3458	ALL	633753.6	4271828	3.53E-09	1YrCancerD	3.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3459	ALL	633710.1	4271691	3.24E-09	1YrCancerD	3.24E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3460	ALL	633693.3	4271700	3.20E-09	1YrCancerD	3.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3461	ALL	633765.1	4271899	3.63E-09	1YrCancerD	3.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3462	ALL	633786.5	4271929	3.74E-09	1YrCancerD	3.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3463	ALL	633803.3	4271938	3.81E-09	1YrCancerD	3.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3464	ALL	633831.6	4271943	3.93E-09	1YrCancerD	3.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3465	ALL	633860.6	4271947	4.06E-09	1YrCancerD	4.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3466	ALL	633881.9	4271953	4.16E-09	1YrCancerD	4.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3467	ALL	633908.7	4271973	4.31E-09	1YrCancerD	4.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3468	ALL	633921.7	4271994	4.39E-09	1YrCancerD	4.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3469	ALL	633931.6	4272031	4.46E-09	1YrCancerD	4.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3470	ALL	633937.7	4272053	4.52E-09	1YrCancerD	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3471	ALL	633918.6	4272053	4.42E-09	1YrCancerD	4.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3472	ALL	633911.7	4272097	4.47E-09	1YrCancerD	4.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3473	ALL	633956	4272101	4.70E-09	1YrCancerD	4.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3474	ALL	634007.9	4272137	5.09E-09	1YrCancerD	5.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3475	ALL	634056.8	4272161	5.47E-09	1YrCancerD	5.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3476	ALL	634114.1	4272190	5.97E-09	1YrCancerD	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3477	ALL	634214.9	4272236	7.07E-09	1YrCancerD	7.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3478	ALL	634313.7	4272280	8.50E-09	1YrCancerD	8.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3479	ALL	634496.1	4272359	1.30E-08	1YrCancerD	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3480	ALL	634555.3	4272375	1.54E-08	1YrCancerD	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3481	ALL	634638	4272385	2.02E-08	1YrCancerD	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3482	ALL	634746.7	4272396	3.19E-08	1YrCancerD	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3483	ALL	634773.2	4272395	3.64E-08	1YrCancerD	3.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3484	ALL	634790.1	4272394	3.98E-08	1YrCancerD	3.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3485	ALL	634810.9	4272389	4.48E-08	1YrCancerD	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3486	ALL	634828.4	4272381	5.00E-08	1YrCancerD	5.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3487	ALL	634845.9	4272371	5.63E-08	1YrCancerD	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3488	ALL	634857.6	4272363	6.14E-08	1YrCancerD	6.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3489	ALL	634873.2	4272356	6.95E-08	1YrCancerD	6.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3490	ALL	634888.1	4272350	7.92E-08	1YrCancerD	7.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3491	ALL	634923.2	4272339	1.14E-07	1YrCancerD	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3492	ALL	634929	4272338	1.22E-07	1YrCancerD	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3493	ALL	634948.5	4272324	1.61E-07	1YrCancerD	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3494	ALL	634975.1	4272301	2.69E-07	1YrCancerD	2.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3495	ALL	634991.3	4272270	5.65E-07	1YrCancerD	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3496	ALL	635047.8	4272254	1.19E-06	1YrCancerD	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3497	ALL	635110.7	4272224	1.33E-06	1YrCancerD	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3498	ALL	635172.2	4272170	1.45E-06	1YrCancerD	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3499	ALL	635251.2	4272096	1.24E-06	1YrCancerD	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3500	ALL	635343.3	4272006	1.13E-06	1YrCancerD	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3501	ALL	635421.9	4271924	1.17E-06	1YrCancerD	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3502	ALL	635515.5	4271825	1.20E-06	1YrCancerD	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3503	ALL	635571.1	4271790	1.08E-06	1YrCancerD	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3504	ALL	635606.2	4271772	6.43E-07	1YrCancerD	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3505	ALL	635606.2	4271733	1.01E-06	1YrCancerD	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3506	ALL	635629.6	4271717	3.71E-07	1YrCancerD	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3507	ALL	635620.9	4271693	4.50E-07	1YrCancerD	4.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3508	ALL	635689.4	4271635	2.08E-07	1YrCancerD	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3509	ALL	635729.6	4271600	1.44E-07	1YrCancerD	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3510	ALL	635767.6	4271576	1.28E-07	1YrCancerD	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3511	ALL	635798.4	4271561	1.17E-07	1YrCancerD	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3512	ALL	635851.6	4271538	1.02E-07	1YrCancerD	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3513	ALL	635882.7	4271524	9.81E-08	1YrCancerD	9.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3514	ALL	635911.8	4271512	9.00E-08	1YrCancerD	9.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3515	ALL	635954.5	4271499	8.77E-08	1YrCancerD	8.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3516	ALL	636030.9	4271478	8.34E-08	1YrCancerD	8.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3517	ALL	636077.5	4271468	5.97E-08	1YrCancerD	5.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3518	ALL	636174.5	4271456	6.99E-08	1YrCancerD	6.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3519	ALL	636228.7	4271448	5.35E-08	1YrCancerD	5.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3520	ALL	636300.5	4271434	6.87E-08	1YrCancerD	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3521	ALL	636374.6	4271422	6.67E-08	1YrCancerD	6.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3522	ALL	636470.9	4271418	4.86E-08	1YrCancerD	4.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3523	ALL	636535	4271420	6.20E-08	1YrCancerD	6.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3524	ALL	636617.5	4271428	6.51E-08	1YrCancerD	6.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3525	ALL	636772.2	4271443	6.19E-08	1YrCancerD	6.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3526	ALL	636825	4271449	4.63E-08	1YrCancerD	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3527	ALL	636866.2	4271452	4.68E-08	1YrCancerD	4.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3528	ALL	636909.6	4271457	7.29E-08	1YrCancerD	7.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3529	ALL	636940.2	4271459	6.39E-08	1YrCancerD	6.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3530	ALL	636961.4	4271458	6.89E-08	1YrCancerD	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3531	ALL	637012.1	4271446	7.12E-08	1YrCancerD	7.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEV	RESP	SKIN	EYE	BONE/TEE	TENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		636686.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06
2	ALL		636726.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06
3	ALL		636766.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06
4	ALL		637126.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
5	ALL		637166.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
6	ALL		637206.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06
7	ALL		637246.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06
8	ALL		637286.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06
9	ALL		637326.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-06
10	ALL		638446.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
11	ALL		638526.2	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
12	ALL		636766.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06
13	ALL		637166.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
14	ALL		637206.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
15	ALL		637246.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
16	ALL		637286.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06
17	ALL		637326.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06
18	ALL		637726.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-06
19	ALL		637766.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06
20	ALL		637806.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06
21	ALL		637846.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06
22	ALL		637886.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06
23	ALL		637926.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06
24	ALL		637966.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06
25	ALL		638006.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06
26	ALL		638046.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-06
27	ALL		638086.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06
28	ALL		638126.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-06
29	ALL		638166.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-06
30	ALL		638206.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
31	ALL		638246.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
32	ALL		638286.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
33	ALL		638326.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
34	ALL		638366.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
35	ALL		638406.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
36	ALL		638446.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
37	ALL		638486.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
38	ALL		638526.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
39	ALL		638566.2	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05
40	ALL		636686.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06
41	ALL		636726.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06
42	ALL		637206.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
43	ALL		637246.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
44	ALL		637286.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
45	ALL		637326.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06
46	ALL		637366.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06
47	ALL		637686.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06
48	ALL		637766.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06
49	ALL		637806.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
50	ALL		637846.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06
51	ALL		637886.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-06
52	ALL		637926.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06
53	ALL		637966.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06
54	ALL		638006.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06
55	ALL		638046.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-06
56	ALL		638086.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-06
57	ALL		638126.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06
58	ALL		638166.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06
59	ALL		638206.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
60	ALL		638246.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
61	ALL		638286.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
62	ALL		638326.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
63	ALL		638366.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
64	ALL		638406.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
65	ALL		638446.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
66	ALL		638486.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
67	ALL		638526.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
68	ALL		638566.2	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
69	ALL		636686.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06
70	ALL		636726.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06
71	ALL		636766.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
72	ALL		637286.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
73	ALL		637326.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
74	ALL		637366.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
75	ALL		637686.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06
76	ALL		637766.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06
77	ALL		637806.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06
78	ALL		637846.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06
79	ALL		637886.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06
80	ALL		637926.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06
81	ALL		637966.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-06
82	ALL		638006.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06
83	ALL		638046.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-06
84	ALL		638086.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-06
85	ALL		638126.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-06
86	ALL		638166.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-06
87	ALL		638206.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
88	ALL		638246.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
89	ALL		638286.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
90	ALL		638326.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
91	ALL		638366.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
92	ALL		638406.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
93	ALL		638446.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05

94	ALL	638486.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
95	ALL	638526.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
96	ALL	638566.2	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
97	ALL	636646.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06
98	ALL	636686.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
99	ALL	636726.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
100	ALL	636766.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
101	ALL	636806.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
102	ALL	637086.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
103	ALL	637126.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
104	ALL	637286.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
105	ALL	637326.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
106	ALL	637686.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
107	ALL	637726.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-06
108	ALL	637766.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06
109	ALL	637806.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-06
110	ALL	637846.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-06
111	ALL	637886.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-06
112	ALL	637926.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06
113	ALL	637966.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06
114	ALL	638006.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-06
115	ALL	638046.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06
116	ALL	638086.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06
117	ALL	638126.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-06
118	ALL	638166.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
119	ALL	638206.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
120	ALL	638246.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
121	ALL	638286.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
122	ALL	638326.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
123	ALL	638366.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
124	ALL	638406.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
125	ALL	638446.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
126	ALL	638486.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
127	ALL	638526.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
128	ALL	638566.2	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
129	ALL	636646.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
130	ALL	636686.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
131	ALL	636726.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
132	ALL	636766.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
133	ALL	636806.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
134	ALL	636846.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
135	ALL	637046.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
136	ALL	637086.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
137	ALL	637126.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
138	ALL	637166.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
139	ALL	637286.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
140	ALL	637326.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
141	ALL	637646.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06
142	ALL	637686.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-06
143	ALL	637726.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06
144	ALL	637766.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06
145	ALL	637806.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-06
146	ALL	637846.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-06
147	ALL	637886.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06
148	ALL	637926.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06
149	ALL	637966.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
150	ALL	638006.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-06
151	ALL	638046.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06
152	ALL	638086.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-06
153	ALL	638126.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-06
154	ALL	638166.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
155	ALL	638206.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
156	ALL	638246.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
157	ALL	638286.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
158	ALL	638326.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
159	ALL	638366.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
160	ALL	638406.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
161	ALL	638446.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
162	ALL	638526.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
163	ALL	638566.2	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05
164	ALL	636646.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
165	ALL	636686.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
166	ALL	636726.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
167	ALL	636766.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
168	ALL	636806.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
169	ALL	636846.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
170	ALL	637006.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
171	ALL	637046.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
172	ALL	637086.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
173	ALL	637126.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
174	ALL	637166.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
175	ALL	637206.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
176	ALL	637246.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
177	ALL	637286.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
178	ALL	637326.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
179	ALL	637646.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
180	ALL	637686.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-06
181	ALL	637726.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06
182	ALL	637766.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06
183	ALL	637806.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-06
184	ALL	637846.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-06
185	ALL	637886.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06
186	ALL	637926.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06
187	ALL	637966.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06

188	ALL	638006.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-06
189	ALL	638046.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06
190	ALL	638086.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06
191	ALL	638126.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
192	ALL	638166.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
193	ALL	638206.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
194	ALL	638246.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
195	ALL	638286.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
196	ALL	638326.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
197	ALL	638366.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
198	ALL	638406.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
199	ALL	638446.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
200	ALL	638526.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
201	ALL	638566.2	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-05
202	ALL	636646.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
203	ALL	636686.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
204	ALL	636726.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
205	ALL	636766.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
206	ALL	636806.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
207	ALL	636846.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
208	ALL	637006.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
209	ALL	637046.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
210	ALL	637086.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
211	ALL	637126.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
212	ALL	637166.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
213	ALL	637206.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
214	ALL	637246.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
215	ALL	637286.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
216	ALL	637646.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
217	ALL	637686.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
218	ALL	637726.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
219	ALL	637766.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
220	ALL	637806.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-06
221	ALL	637846.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06
222	ALL	637886.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06
223	ALL	637926.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06
224	ALL	637966.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06
225	ALL	638006.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-06
226	ALL	638046.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-06
227	ALL	638086.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
228	ALL	638126.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
229	ALL	638166.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
230	ALL	638206.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
231	ALL	638246.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
232	ALL	638286.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
233	ALL	638326.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
234	ALL	638366.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
235	ALL	638406.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
236	ALL	638446.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
237	ALL	638486.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
238	ALL	638526.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
239	ALL	638566.2	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
240	ALL	636646.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
241	ALL	636686.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
242	ALL	636726.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
243	ALL	636766.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
244	ALL	636806.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
245	ALL	637046.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
246	ALL	637086.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
247	ALL	637126.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
248	ALL	637166.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
249	ALL	637206.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
250	ALL	637246.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
251	ALL	637286.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
252	ALL	637646.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
253	ALL	637686.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
254	ALL	637726.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
255	ALL	637766.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
256	ALL	637806.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
257	ALL	637846.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
258	ALL	637886.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
259	ALL	637926.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-06
260	ALL	637966.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-06
261	ALL	638006.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06
262	ALL	638046.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
263	ALL	638086.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
264	ALL	638126.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
265	ALL	638166.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
266	ALL	638206.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
267	ALL	638246.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
268	ALL	638286.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
269	ALL	638326.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
270	ALL	638366.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
271	ALL	638406.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
272	ALL	638446.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
273	ALL	638486.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
274	ALL	638526.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
275	ALL	638566.2	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
276	ALL	636646.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
277	ALL	636686.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
278	ALL	636726.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
279	ALL	636766.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
280

282	ALL	637126.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
283	ALL	637166.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
284	ALL	637206.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
285	ALL	637246.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
286	ALL	637286.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
287	ALL	637606.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
288	ALL	637646.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
289	ALL	637686.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
290	ALL	637726.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
291	ALL	637766.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
292	ALL	637806.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
293	ALL	637846.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
294	ALL	637886.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
295	ALL	637926.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
296	ALL	637966.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
297	ALL	638006.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
298	ALL	638046.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
299	ALL	638086.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
300	ALL	638126.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
301	ALL	638166.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
302	ALL	638206.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
303	ALL	638246.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
304	ALL	638286.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
305	ALL	638326.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
306	ALL	638366.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
307	ALL	638406.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
308	ALL	638446.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
309	ALL	638486.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
310	ALL	638526.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
311	ALL	638566.2	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05
312	ALL	636286.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
313	ALL	636326.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
314	ALL	636366.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
315	ALL	636406.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
316	ALL	636606.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
317	ALL	636646.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
318	ALL	636686.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
319	ALL	636726.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
320	ALL	636766.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
321	ALL	636806.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
322	ALL	637086.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05
323	ALL	637126.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
324	ALL	637166.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
325	ALL	637206.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
326	ALL	637246.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
327	ALL	637286.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
328	ALL	637606.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
329	ALL	637646.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
330	ALL	637686.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
331	ALL	637806.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
332	ALL	637846.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
333	ALL	637886.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
334	ALL	637926.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
335	ALL	637966.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
336	ALL	638006.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
337	ALL	638046.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
338	ALL	638086.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
339	ALL	638126.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
340	ALL	638166.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
341	ALL	638206.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
342	ALL	638246.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
343	ALL	638286.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
344	ALL	638326.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
345	ALL	638366.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
346	ALL	638406.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
347	ALL	638446.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
348	ALL	638486.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
349	ALL	638526.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
350	ALL	638566.2	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05
351	ALL	636166.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
352	ALL	636246.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
353	ALL	636286.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
354	ALL	636326.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
355	ALL	636366.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
356	ALL	636406.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
357	ALL	636606.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
358	ALL	636646.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
359	ALL	636686.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
360	ALL	636726.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
361	ALL	636766.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
362	ALL	636806.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
363	ALL	636886.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
364	ALL	636926.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
365	ALL	636966.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
366	ALL	637166.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
367	ALL	637206.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
368	ALL	637246.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
369	ALL	637606.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
370	ALL	637646.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
371	ALL	637686.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
372	ALL	637766.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
373	ALL	637806.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
374	ALL	637846.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
375	ALL	637886.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05

376	ALL	637926.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
377	ALL	637966.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
378	ALL	638006.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
379	ALL	638046.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
380	ALL	638086.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
381	ALL	638126.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
382	ALL	638206.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
383	ALL	638246.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
384	ALL	638286.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
385	ALL	638326.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
386	ALL	638366.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
387	ALL	638406.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
388	ALL	638446.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
389	ALL	638486.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
390	ALL	638526.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
391	ALL	638566.2	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05
392	ALL	636046.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
393	ALL	636086.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
394	ALL	636126.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
395	ALL	636166.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
396	ALL	636206.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
397	ALL	636246.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
398	ALL	636326.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
399	ALL	636366.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
400	ALL	636406.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
401	ALL	636606.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
402	ALL	636646.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
403	ALL	636686.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
404	ALL	636726.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
405	ALL	636766.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
406	ALL	636806.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05
407	ALL	636846.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
408	ALL	636886.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-05
409	ALL	636926.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
410	ALL	636966.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
411	ALL	637006.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
412	ALL	637046.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
413	ALL	637086.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05
414	ALL	637246.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05
415	ALL	637606.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
416	ALL	637646.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
417	ALL	637686.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
418	ALL	637726.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
419	ALL	637766.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
420	ALL	637806.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
421	ALL	637846.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
422	ALL	637886.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
423	ALL	637926.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
424	ALL	637966.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
425	ALL	638006.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
426	ALL	638046.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
427	ALL	638086.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
428	ALL	638126.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
429	ALL	638166.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
430	ALL	638206.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
431	ALL	638326.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
432	ALL	638366.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
433	ALL	638406.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
434	ALL	638446.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
435	ALL	638486.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
436	ALL	638526.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
437	ALL	638566.2	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
438	ALL	635926.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-06
439	ALL	635966.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
440	ALL	636006.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
441	ALL	636046.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
442	ALL	636086.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
443	ALL	636126.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
444	ALL	636166.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
445	ALL	636206.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
446	ALL	636246.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
447	ALL	636326.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
448	ALL	636406.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
449	ALL	636446.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
450	ALL	636606.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
451	ALL	636646.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
452	ALL	636686.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
453	ALL	636726.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
454	ALL	636766.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
455	ALL	636806.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05
456	ALL	636846.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
457	ALL	636886.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
458	ALL	636926.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
459	ALL	636966.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
460	ALL	637006.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
461	ALL	637046.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
462	ALL	637086.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
463	ALL	637166.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
464	ALL	637206.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05
465	ALL	637246.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-05
466	ALL	637606.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
467	ALL	637646.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
468	ALL	637686.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
469	ALL	637726.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05

470	ALL	637806.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
471	ALL	637846.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
472	ALL	637886.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
473	ALL	637926.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
474	ALL	637966.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
475	ALL	638006.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
476	ALL	638046.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
477	ALL	638086.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
478	ALL	638126.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
479	ALL	638166.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
480	ALL	638206.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
481	ALL	638326.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
482	ALL	638366.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
483	ALL	638406.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
484	ALL	638446.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
485	ALL	638486.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
486	ALL	638526.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
487	ALL	638566.2	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
488	ALL	635966.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
489	ALL	636006.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
490	ALL	636046.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
491	ALL	636086.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
492	ALL	636126.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
493	ALL	636166.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
494	ALL	636206.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
495	ALL	636246.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
496	ALL	636286.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
497	ALL	636326.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
498	ALL	636406.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
499	ALL	636446.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
500	ALL	636606.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
501	ALL	636646.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
502	ALL	636686.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
503	ALL	636726.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
504	ALL	636766.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
505	ALL	636846.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
506	ALL	636886.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
507	ALL	636926.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
508	ALL	636966.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
509	ALL	637006.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
510	ALL	637046.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
511	ALL	637086.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
512	ALL	637166.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
513	ALL	637206.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
514	ALL	637246.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
515	ALL	637606.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-05
516	ALL	637646.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
517	ALL	637686.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
518	ALL	637726.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
519	ALL	637766.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
520	ALL	637846.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
521	ALL	637886.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
522	ALL	637926.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
523	ALL	637966.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
524	ALL	638006.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
525	ALL	638046.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
526	ALL	638086.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
527	ALL	638126.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
528	ALL	638166.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
529	ALL	638206.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
530	ALL	638246.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
531	ALL	638286.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
532	ALL	638326.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
533	ALL	638366.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
534	ALL	638406.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
535	ALL	638486.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
536	ALL	638526.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
537	ALL	638566.2	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
538	ALL	635966.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
539	ALL	636006.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
540	ALL	636046.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
541	ALL	636086.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
542	ALL	636166.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
543	ALL	636206.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
544	ALL	636246.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
545	ALL	636286.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
546	ALL	636326.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
547	ALL	636366.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
548	ALL	636406.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
549	ALL	636446.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
550	ALL	636566.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
551	ALL	636606.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
552	ALL	636646.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
553	ALL	636686.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
554	ALL	636726.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
555	ALL	636806.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
556	ALL	636846.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-05
557	ALL	636886.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
558	ALL	636926.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
559	ALL	636966.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
560	ALL	637006.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
561	ALL	637046.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
562	ALL	637086.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
563	ALL	637166.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05

564	ALL	637206.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
565	ALL	637246.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
566	ALL	637566.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05
567	ALL	637686.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
568	ALL	637726.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
569	ALL	637766.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
570	ALL	637806.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
571	ALL	637846.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
572	ALL	637886.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
573	ALL	637926.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
574	ALL	637966.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
575	ALL	638006.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
576	ALL	638046.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
577	ALL	638086.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
578	ALL	638126.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
579	ALL	638166.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
580	ALL	638206.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
581	ALL	638246.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
582	ALL	638286.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
583	ALL	638326.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
584	ALL	638366.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
585	ALL	638406.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
586	ALL	638446.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
587	ALL	638486.2	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
588	ALL	635966.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
589	ALL	636006.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
590	ALL	636046.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
591	ALL	636086.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
592	ALL	636166.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
593	ALL	636206.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
594	ALL	636246.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
595	ALL	636286.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
596	ALL	636326.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
597	ALL	636366.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
598	ALL	636406.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
599	ALL	636446.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
600	ALL	636566.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
601	ALL	636606.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
602	ALL	636646.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
603	ALL	636686.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05
604	ALL	636766.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
605	ALL	636806.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
606	ALL	636846.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
607	ALL	636886.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05
608	ALL	636926.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
609	ALL	636966.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
610	ALL	637006.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
611	ALL	637046.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
612	ALL	637086.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
613	ALL	637206.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
614	ALL	637246.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
615	ALL	637566.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
616	ALL	637606.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
617	ALL	637726.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
618	ALL	637766.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
619	ALL	637806.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
620	ALL	637886.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
621	ALL	637926.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
622	ALL	637966.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
623	ALL	638006.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
624	ALL	638046.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
625	ALL	638086.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
626	ALL	638126.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
627	ALL	638166.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
628	ALL	638206.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
629	ALL	638246.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
630	ALL	638286.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
631	ALL	638326.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
632	ALL	638366.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
633	ALL	638406.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
634	ALL	638446.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
635	ALL	638486.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
636	ALL	638526.2	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
637	ALL	635966.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
638	ALL	636006.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
639	ALL	636086.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
640	ALL	636126.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
641	ALL	636166.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
642	ALL	636206.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
643	ALL	636366.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
644	ALL	636406.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
645	ALL	636446.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
646	ALL	636566.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
647	ALL	636606.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
648	ALL	636646.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
649	ALL	636686.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05
650	ALL	636726.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
651	ALL	636766.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
652	ALL	636806.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
653	ALL	636846.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
654	ALL	636886.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
655	ALL	636926.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
656

658	ALL	637046.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
659	ALL	637566.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
660	ALL	637606.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
661	ALL	637646.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
662	ALL	637726.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
663	ALL	637766.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
664	ALL	637806.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
665	ALL	637846.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
666	ALL	637926.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
667	ALL	637966.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
668	ALL	638006.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
669	ALL	638046.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
670	ALL	638086.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
671	ALL	638126.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
672	ALL	638166.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
673	ALL	638206.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
674	ALL	638246.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
675	ALL	638286.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
676	ALL	638326.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
677	ALL	638366.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
678	ALL	638406.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
679	ALL	638446.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
680	ALL	638486.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
681	ALL	638526.2	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-05
682	ALL	635966.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
683	ALL	636006.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
684	ALL	636046.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
685	ALL	636086.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
686	ALL	636126.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
687	ALL	636166.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
688	ALL	636206.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
689	ALL	636286.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
690	ALL	636326.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
691	ALL	636366.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
692	ALL	636406.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
693	ALL	636446.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
694	ALL	636566.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
695	ALL	636606.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
696	ALL	636646.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
697	ALL	636686.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05
698	ALL	636726.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-05
699	ALL	636766.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
700	ALL	636806.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
701	ALL	636846.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
702	ALL	636886.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
703	ALL	636926.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
704	ALL	636966.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
705	ALL	637006.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
706	ALL	637046.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
707	ALL	637086.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
708	ALL	637126.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
709	ALL	637166.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
710	ALL	637606.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
711	ALL	637646.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-05
712	ALL	637686.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
713	ALL	637766.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
714	ALL	637806.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
715	ALL	637846.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
716	ALL	637886.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
717	ALL	637966.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
718	ALL	638006.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
719	ALL	638046.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
720	ALL	638086.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
721	ALL	638126.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
722	ALL	638166.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
723	ALL	638206.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
724	ALL	638246.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
725	ALL	638286.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
726	ALL	638326.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
727	ALL	638366.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
728	ALL	638406.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
729	ALL	638446.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
730	ALL	638486.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-05
731	ALL	638566.2	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
732	ALL	635966.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
733	ALL	636006.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
734	ALL	636046.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
735	ALL	636086.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
736	ALL	636126.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
737	ALL	636166.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
738	ALL	636206.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
739	ALL	636286.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
740	ALL	636326.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
741	ALL	636366.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
742	ALL	636406.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
743	ALL	636446.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
744	ALL	636566.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
745	ALL	636606.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
746	ALL	636646.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
747	ALL	636686.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
748	ALL	636726.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
749	ALL	636766.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
750	ALL	636806.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
751	ALL	636846.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05

752	ALL	636886.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
753	ALL	636926.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
754	ALL	636966.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
755	ALL	637006.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
756	ALL	637046.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
757	ALL	637086.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
758	ALL	637126.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
759	ALL	637166.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
760	ALL	637206.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
761	ALL	637606.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
762	ALL	637646.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
763	ALL	637686.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-05
764	ALL	637726.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
765	ALL	637806.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
766	ALL	637846.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
767	ALL	637886.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
768	ALL	637926.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
769	ALL	637966.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
770	ALL	638046.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
771	ALL	638086.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
772	ALL	638126.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
773	ALL	638166.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
774	ALL	638206.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05
775	ALL	638246.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05
776	ALL	638286.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
777	ALL	638326.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
778	ALL	638366.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-05
779	ALL	638406.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
780	ALL	638446.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
781	ALL	638526.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
782	ALL	638566.2	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
783	ALL	635966.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
784	ALL	636006.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
785	ALL	636046.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
786	ALL	636086.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
787	ALL	636126.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
788	ALL	636166.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
789	ALL	636206.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
790	ALL	636526.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
791	ALL	636566.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-05
792	ALL	636606.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
793	ALL	636646.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
794	ALL	636686.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
795	ALL	636726.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
796	ALL	636766.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
797	ALL	636806.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
798	ALL	636846.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
799	ALL	636886.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
800	ALL	636926.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
801	ALL	636966.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
802	ALL	637006.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
803	ALL	637046.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
804	ALL	637086.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
805	ALL	637126.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
806	ALL	637166.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
807	ALL	637206.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
808	ALL	637606.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
809	ALL	637646.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
810	ALL	637686.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
811	ALL	637726.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
812	ALL	637846.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
813	ALL	637886.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
814	ALL	637926.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
815	ALL	637966.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
816	ALL	638006.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
817	ALL	638086.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
818	ALL	638126.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
819	ALL	638166.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
820	ALL	638206.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
821	ALL	638246.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
822	ALL	638286.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
823	ALL	638326.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
824	ALL	638366.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
825	ALL	638486.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
826	ALL	638526.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05
827	ALL	638566.2	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
828	ALL	635966.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
829	ALL	636006.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
830	ALL	636046.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
831	ALL	636126.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
832	ALL	636166.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
833	ALL	636206.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
834	ALL	636286.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
835	ALL	636326.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
836	ALL	636366.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
837	ALL	636406.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
838	ALL	636446.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
839	ALL	636526.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
840	ALL	636606.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-05
841	ALL	636646.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
842	ALL	636686.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
843	ALL	636726.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
844	ALL	636766.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
845	ALL	636806.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05

846	ALL	636846.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
847	ALL	636886.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
848	ALL	636926.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
849	ALL	636966.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
850	ALL	637006.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
851	ALL	637046.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
852	ALL	637086.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
853	ALL	637126.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
854	ALL	637166.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
855	ALL	637206.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
856	ALL	637606.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
857	ALL	637646.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
858	ALL	637686.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
859	ALL	637726.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
860	ALL	637766.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
861	ALL	637886.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
862	ALL	637926.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
863	ALL	637966.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
864	ALL	638006.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
865	ALL	638046.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
866	ALL	638086.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
867	ALL	638166.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
868	ALL	638206.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
869	ALL	638246.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
870	ALL	638286.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
871	ALL	638406.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
872	ALL	638446.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
873	ALL	638486.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
874	ALL	638526.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
875	ALL	638566.2	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
876	ALL	636006.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
877	ALL	636046.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
878	ALL	636086.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
879	ALL	636126.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
880	ALL	636166.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
881	ALL	636206.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
882	ALL	636526.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
883	ALL	636606.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
884	ALL	636646.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
885	ALL	636686.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
886	ALL	636726.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
887	ALL	636766.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
888	ALL	636806.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
889	ALL	636846.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
890	ALL	636886.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
891	ALL	636926.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
892	ALL	636966.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
893	ALL	637006.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
894	ALL	637046.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
895	ALL	637086.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
896	ALL	637126.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
897	ALL	637166.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
898	ALL	637206.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
899	ALL	637646.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
900	ALL	637686.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
901	ALL	637726.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
902	ALL	637766.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-05
903	ALL	637886.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
904	ALL	637926.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
905	ALL	637966.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
906	ALL	638006.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
907	ALL	638046.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
908	ALL	638086.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
909	ALL	638126.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
910	ALL	638166.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05
911	ALL	638326.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
912	ALL	638366.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
913	ALL	638406.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
914	ALL	638446.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
915	ALL	638486.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
916	ALL	638526.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-05
917	ALL	638566.2	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
918	ALL	635966.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
919	ALL	636006.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
920	ALL	636046.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
921	ALL	636086.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
922	ALL	636126.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
923	ALL	636166.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
924	ALL	636206.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
925	ALL	636286.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
926	ALL	636326.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
927	ALL	636366.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
928	ALL	636406.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
929	ALL	636526.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
930	ALL	636566.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
931	ALL	636606.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-05
932	ALL	636646.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
933	ALL	636686.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
934	ALL	636726.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
935	ALL	636766.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
936	ALL	636806.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
937	ALL	636846.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
938	ALL	636886.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
939	ALL	636926.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05

940	ALL	636966.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
941	ALL	637006.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
942	ALL	637046.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
943	ALL	637086.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
944	ALL	637126.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
945	ALL	637166.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
946	ALL	637206.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
947	ALL	637646.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
948	ALL	637686.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
949	ALL	637726.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
950	ALL	637766.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-05
951	ALL	637806.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
952	ALL	637926.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
953	ALL	637966.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
954	ALL	638006.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
955	ALL	638046.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
956	ALL	638086.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
957	ALL	638126.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-05
958	ALL	638286.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05
959	ALL	638326.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-05
960	ALL	638366.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
961	ALL	638406.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
962	ALL	638446.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
963	ALL	638486.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
964	ALL	638526.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
965	ALL	638566.2	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
966	ALL	634406.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06
967	ALL	635966.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
968	ALL	636046.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
969	ALL	636086.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
970	ALL	636126.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
971	ALL	636166.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
972	ALL	636206.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
973	ALL	636486.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
974	ALL	636526.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
975	ALL	636606.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05
976	ALL	636646.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
977	ALL	636686.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
978	ALL	636726.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
979	ALL	636766.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
980	ALL	636806.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
981	ALL	636846.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
982	ALL	636886.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
983	ALL	636926.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
984	ALL	636966.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
985	ALL	637006.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
986	ALL	637046.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
987	ALL	637086.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
988	ALL	637126.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
989	ALL	637166.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
990	ALL	637206.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
991	ALL	637646.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
992	ALL	637686.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
993	ALL	637726.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
994	ALL	637766.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
995	ALL	637806.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
996	ALL	637846.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05
997	ALL	638046.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05
998	ALL	638086.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
999	ALL	638326.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-05
1000	ALL	638366.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
1001	ALL	638406.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1002	ALL	638446.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1003	ALL	638486.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1004	ALL	638526.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1005	ALL	638566.2	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1006	ALL	635966.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
1007	ALL	636006.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
1008	ALL	636046.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1009	ALL	636126.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
1010	ALL	636166.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1011	ALL	636206.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1012	ALL	636286.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1013	ALL	636326.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
1014	ALL	636366.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1015	ALL	636406.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1016	ALL	636486.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1017	ALL	636526.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
1018	ALL	636606.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
1019	ALL	636646.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1020	ALL	636686.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1021	ALL	636726.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
1022	ALL	636766.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1023	ALL	636806.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1024	ALL	636846.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1025	ALL	636886.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1026	ALL	636926.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1027	ALL	636966.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1028	ALL	637006.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1029	ALL	637046.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
1030	ALL	637086.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1031	ALL	637126.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
1032	ALL	637166.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1033	ALL	637206.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05

1034	ALL	637246.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
1035	ALL	637646.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1036	ALL	637686.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1037	ALL	637726.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1038	ALL	637766.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1039	ALL	637806.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
1040	ALL	637846.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
1041	ALL	638326.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1042	ALL	638366.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
1043	ALL	638406.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
1044	ALL	638446.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
1045	ALL	638486.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1046	ALL	638526.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1047	ALL	638566.2	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1048	ALL	635966.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1049	ALL	636006.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1050	ALL	636046.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1051	ALL	636486.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1052	ALL	636526.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
1053	ALL	636566.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-05
1054	ALL	636606.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1055	ALL	636646.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
1056	ALL	636686.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
1057	ALL	636726.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
1058	ALL	636766.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1059	ALL	636806.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1060	ALL	636846.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1061	ALL	636886.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1062	ALL	636926.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1063	ALL	636966.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1064	ALL	637006.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
1065	ALL	637046.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1066	ALL	637086.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1067	ALL	637126.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
1068	ALL	637166.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
1069	ALL	637206.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1070	ALL	637246.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1071	ALL	637686.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1072	ALL	637726.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1073	ALL	637766.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1074	ALL	637806.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1075	ALL	637846.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
1076	ALL	637886.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
1077	ALL	638366.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1078	ALL	638406.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1079	ALL	638446.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1080	ALL	638486.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1081	ALL	638526.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
1082	ALL	638566.2	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1083	ALL	635966.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1084	ALL	636006.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1085	ALL	636046.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1086	ALL	636126.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1087	ALL	636166.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1088	ALL	636206.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1089	ALL	636246.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1090	ALL	636486.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1091	ALL	636526.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
1092	ALL	636566.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
1093	ALL	636646.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05
1094	ALL	636686.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
1095	ALL	636726.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1096	ALL	636766.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
1097	ALL	636806.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1098	ALL	636846.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1099	ALL	636886.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1100	ALL	636926.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1101	ALL	636966.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1102	ALL	637006.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1103	ALL	637046.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
1104	ALL	637086.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1105	ALL	637126.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1106	ALL	637166.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1107	ALL	637206.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1108	ALL	637246.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1109	ALL	637686.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1110	ALL	637726.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
1111	ALL	637766.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1112	ALL	637806.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1113	ALL	637846.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1114	ALL	637886.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
1115	ALL	637926.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
1116	ALL	638446.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1117	ALL	638486.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1118	ALL	638526.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1119	ALL	638566.2	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1120	ALL	635966.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1121	ALL	636006.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1122	ALL	636046.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1123	ALL	636126.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1124	ALL	636166.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1125	ALL	636206.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1126	ALL	636246.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1127	ALL	636486.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05

1128	ALL	636526.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1129	ALL	636566.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
1130	ALL	636606.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
1131	ALL	636686.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
1132	ALL	636726.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05
1133	ALL	636766.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
1134	ALL	636806.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
1135	ALL	636846.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1136	ALL	636886.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1137	ALL	636926.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1138	ALL	636966.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1139	ALL	637006.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1140	ALL	637046.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1141	ALL	637086.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1142	ALL	637126.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1143	ALL	637166.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
1144	ALL	637206.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1145	ALL	637246.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1146	ALL	637686.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1147	ALL	637726.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1148	ALL	637766.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1149	ALL	637806.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1150	ALL	637846.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1151	ALL	638446.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1152	ALL	638486.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1153	ALL	638526.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1154	ALL	638566.2	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
1155	ALL	635366.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1156	ALL	635406.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
1157	ALL	635446.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
1158	ALL	635486.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1159	ALL	635526.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1160	ALL	635566.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1161	ALL	635606.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1162	ALL	635646.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1163	ALL	635686.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1164	ALL	635726.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1165	ALL	635766.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1166	ALL	635806.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1167	ALL	635846.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1168	ALL	635926.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1169	ALL	635966.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1170	ALL	636006.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1171	ALL	636046.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1172	ALL	636126.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1173	ALL	636166.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1174	ALL	636206.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1175	ALL	636246.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
1176	ALL	636446.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1177	ALL	636486.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1178	ALL	636526.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1179	ALL	636566.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
1180	ALL	636606.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
1181	ALL	636646.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05
1182	ALL	636686.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1183	ALL	636726.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
1184	ALL	636766.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
1185	ALL	636806.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
1186	ALL	636846.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1187	ALL	636886.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1188	ALL	636926.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1189	ALL	636966.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1190	ALL	637006.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1191	ALL	637046.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1192	ALL	637086.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
1193	ALL	637126.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1194	ALL	637166.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1195	ALL	637206.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1196	ALL	637246.2	4270752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
1197	ALL	635246.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1198	ALL	635286.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1199	ALL	635326.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
1200	ALL	635366.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
1201	ALL	635406.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1202	ALL	635446.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1203	ALL	635486.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1204	ALL	635526.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
1205	ALL	635566.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1206	ALL	635606.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1207	ALL	635646.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1208	ALL	635686.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1209	ALL	635726.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1210	ALL	635806.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1211	ALL	635846.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1212	ALL	635886.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1213	ALL	635926.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1214	ALL	635966.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1215	ALL	636006.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1216	ALL	636126.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1217	ALL	636166.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1218	ALL	636206.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1219	ALL	636446.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1220	ALL	636486.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
1221	ALL	636526.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05

1222 ALL	636566.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1223 ALL	636606.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
1224 ALL	636646.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-05
1225 ALL	636686.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1226 ALL	636726.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
1227 ALL	636766.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
1228 ALL	636806.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1229 ALL	636846.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1230 ALL	636886.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1231 ALL	636926.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1232 ALL	636966.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1233 ALL	637006.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1234 ALL	637046.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1235 ALL	637086.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1236 ALL	637126.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1237 ALL	637166.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1238 ALL	637206.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1239 ALL	637246.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
1240 ALL	638086.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
1241 ALL	638126.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1242 ALL	638166.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1243 ALL	638206.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1244 ALL	638246.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1245 ALL	638286.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1246 ALL	638326.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1247 ALL	638366.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1248 ALL	638406.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
1249 ALL	638446.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
1250 ALL	638486.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
1251 ALL	638526.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
1252 ALL	638566.2	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
1253 ALL	635126.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
1254 ALL	635166.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1255 ALL	635206.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
1256 ALL	635246.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1257 ALL	635286.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
1258 ALL	635326.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
1259 ALL	635366.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1260 ALL	635406.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
1261 ALL	635446.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1262 ALL	635486.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1263 ALL	635526.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1264 ALL	635566.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
1265 ALL	635606.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1266 ALL	635686.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1267 ALL	635726.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1268 ALL	635766.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
1269 ALL	635806.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1270 ALL	635846.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1271 ALL	635886.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1272 ALL	635966.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1273 ALL	636006.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1274 ALL	636046.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1275 ALL	636086.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1276 ALL	636126.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1277 ALL	636166.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1278 ALL	636206.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1279 ALL	636446.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1280 ALL	636486.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1281 ALL	636526.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1282 ALL	636566.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1283 ALL	636606.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
1284 ALL	636646.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
1285 ALL	636686.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
1286 ALL	636766.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
1287 ALL	636806.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05
1288 ALL	636846.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
1289 ALL	636886.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1290 ALL	636926.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1291 ALL	636966.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1292 ALL	637006.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1293 ALL	637046.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1294 ALL	637086.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1295 ALL	637126.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
1296 ALL	637166.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1297 ALL	637206.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1298 ALL	637246.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1299 ALL	637286.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1300 ALL	638086.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1301 ALL	638126.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1302 ALL	638166.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1303 ALL	638206.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1304 ALL	638246.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1305 ALL	638286.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1306 ALL	638326.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
1307 ALL	638366.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
1308 ALL	638406.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1309 ALL	638446.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1310 ALL	638486.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
1311 ALL	638526.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
1312 ALL	638566.2	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-06
1313 ALL	635126.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1314 ALL	635166.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1315 ALL	635206.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05

1316	ALL	635246.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1317	ALL	635286.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1318	ALL	635326.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
1319	ALL	635366.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1320	ALL	635406.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1321	ALL	635446.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1322	ALL	635486.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
1323	ALL	635526.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1324	ALL	635566.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1325	ALL	635646.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1326	ALL	635686.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1327	ALL	635726.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1328	ALL	635766.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1329	ALL	635846.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
1330	ALL	635886.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1331	ALL	635926.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-05
1332	ALL	635966.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1333	ALL	636006.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
1334	ALL	636046.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1335	ALL	636086.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1336	ALL	636126.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1337	ALL	636166.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1338	ALL	636206.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1339	ALL	636246.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1340	ALL	636286.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1341	ALL	636406.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1342	ALL	636446.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1343	ALL	636486.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1344	ALL	636526.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1345	ALL	636566.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1346	ALL	636606.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1347	ALL	636646.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1348	ALL	636686.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05
1349	ALL	636726.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
1350	ALL	636806.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
1351	ALL	636846.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
1352	ALL	636886.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1353	ALL	636926.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1354	ALL	636966.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1355	ALL	637006.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1356	ALL	637046.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
1357	ALL	637086.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1358	ALL	637126.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
1359	ALL	637166.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
1360	ALL	637206.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1361	ALL	637246.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
1362	ALL	637286.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
1363	ALL	638086.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1364	ALL	638126.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1365	ALL	638166.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1366	ALL	638206.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
1367	ALL	638246.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1368	ALL	638286.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1369	ALL	638326.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1370	ALL	638366.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
1371	ALL	638406.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
1372	ALL	638446.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1373	ALL	638486.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
1374	ALL	638526.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-06
1375	ALL	638566.2	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-06
1376	ALL	635166.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
1377	ALL	635206.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
1378	ALL	635246.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1379	ALL	635286.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1380	ALL	635326.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
1381	ALL	635366.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
1382	ALL	635406.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
1383	ALL	635446.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1384	ALL	635486.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1385	ALL	635526.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1386	ALL	635766.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1387	ALL	635846.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1388	ALL	635886.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1389	ALL	635926.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1390	ALL	635966.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1391	ALL	636006.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
1392	ALL	636046.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1393	ALL	636086.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1394	ALL	636166.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1395	ALL	636206.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1396	ALL	636246.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1397	ALL	636286.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1398	ALL	636406.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1399	ALL	636446.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1400	ALL	636486.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1401	ALL	636526.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1402	ALL	636566.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1403	ALL	636606.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05
1404	ALL	636646.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1405	ALL	636686.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1406	ALL	636726.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
1407	ALL	636766.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05
1408	ALL	636846.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
1409	ALL	636886.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05

1410	ALL	636926.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
1411	ALL	636966.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1412	ALL	637006.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1413	ALL	637046.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1414	ALL	637086.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
1415	ALL	637126.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1416	ALL	637166.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1417	ALL	637206.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1418	ALL	637246.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1419	ALL	637286.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
1420	ALL	638086.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1421	ALL	638126.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1422	ALL	638166.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1423	ALL	638206.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1424	ALL	638246.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
1425	ALL	638286.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
1426	ALL	638326.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1427	ALL	638366.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1428	ALL	638406.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1429	ALL	638446.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
1430	ALL	638486.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06
1431	ALL	638526.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06
1432	ALL	638566.2	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-06
1433	ALL	635166.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1434	ALL	635206.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
1435	ALL	635246.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1436	ALL	635286.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
1437	ALL	635326.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1438	ALL	635366.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
1439	ALL	635406.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
1440	ALL	635446.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1441	ALL	635486.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1442	ALL	635686.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1443	ALL	635726.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1444	ALL	635766.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1445	ALL	635846.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
1446	ALL	635886.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1447	ALL	635926.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1448	ALL	635966.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
1449	ALL	636006.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1450	ALL	636046.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1451	ALL	636086.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1452	ALL	636126.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1453	ALL	636166.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1454	ALL	636206.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1455	ALL	636246.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1456	ALL	636366.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1457	ALL	636406.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1458	ALL	636446.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1459	ALL	636486.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1460	ALL	636526.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1461	ALL	636566.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1462	ALL	636606.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1463	ALL	636646.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
1464	ALL	636686.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1465	ALL	636726.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1466	ALL	636766.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
1467	ALL	636806.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05
1468	ALL	636886.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
1469	ALL	636926.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
1470	ALL	636966.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
1471	ALL	637006.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1472	ALL	637046.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1473	ALL	637086.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
1474	ALL	637126.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1475	ALL	637166.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1476	ALL	637206.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1477	ALL	637246.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
1478	ALL	637286.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
1479	ALL	638086.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1480	ALL	638126.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
1481	ALL	638166.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1482	ALL	638206.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1483	ALL	638246.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
1484	ALL	638286.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
1485	ALL	638326.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
1486	ALL	638366.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1487	ALL	638406.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
1488	ALL	638446.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06
1489	ALL	638486.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-06
1490	ALL	638526.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06
1491	ALL	638566.2	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06
1492	ALL	634846.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
1493	ALL	634886.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1494	ALL	634926.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1495	ALL	634966.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
1496	ALL	635166.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1497	ALL	635206.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1498	ALL	635246.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1499	ALL	635286.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
1500	ALL	635326.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1501	ALL	635366.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
1502	ALL	635406.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1503	ALL	635446.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05

1504	ALL	635486.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1505	ALL	635526.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1506	ALL	635646.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1507	ALL	635686.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1508	ALL	635726.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1509	ALL	635766.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
1510	ALL	635806.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
1511	ALL	635846.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
1512	ALL	635886.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
1513	ALL	635926.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1514	ALL	635966.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1515	ALL	636006.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
1516	ALL	636046.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1517	ALL	636086.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1518	ALL	636126.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1519	ALL	636206.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1520	ALL	636246.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1521	ALL	636366.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1522	ALL	636406.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
1523	ALL	636446.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1524	ALL	636486.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1525	ALL	636526.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1526	ALL	636566.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1527	ALL	636606.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1528	ALL	636646.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1529	ALL	636686.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1530	ALL	636726.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
1531	ALL	636766.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
1532	ALL	636806.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
1533	ALL	636846.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
1534	ALL	636886.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
1535	ALL	636926.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
1536	ALL	636966.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
1537	ALL	637006.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1538	ALL	637046.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1539	ALL	637086.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1540	ALL	637126.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1541	ALL	637166.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1542	ALL	637206.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1543	ALL	637246.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
1544	ALL	637286.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
1545	ALL	638086.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
1546	ALL	638126.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
1547	ALL	638166.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1548	ALL	638206.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
1549	ALL	638246.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
1550	ALL	638286.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
1551	ALL	638326.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
1552	ALL	638366.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
1553	ALL	638406.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06
1554	ALL	638446.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-06
1555	ALL	638486.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-06
1556	ALL	638526.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-06
1557	ALL	638566.2	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-06
1558	ALL	634806.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
1559	ALL	634846.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1560	ALL	634886.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1561	ALL	634926.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
1562	ALL	634966.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
1563	ALL	635006.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1564	ALL	635046.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
1565	ALL	635086.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
1566	ALL	635166.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
1567	ALL	635206.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
1568	ALL	635246.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1569	ALL	635286.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1570	ALL	635326.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1571	ALL	635366.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1572	ALL	635406.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1573	ALL	635446.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1574	ALL	635486.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
1575	ALL	635526.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
1576	ALL	635566.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1577	ALL	635606.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1578	ALL	635646.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
1579	ALL	635686.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
1580	ALL	635726.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1581	ALL	635766.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
1582	ALL	635806.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
1583	ALL	635846.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1584	ALL	635886.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1585	ALL	635926.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
1586	ALL	635966.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
1587	ALL	636006.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
1588	ALL	636046.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1589	ALL	636126.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1590	ALL	636166.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1591	ALL	636206.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1592	ALL	636326.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1593	ALL	636366.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1594	ALL	636406.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1595	ALL	636446.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79

1598	ALL	636566.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1599	ALL	636606.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1600	ALL	636646.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1601	ALL	636686.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1602	ALL	636726.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1603	ALL	636766.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
1604	ALL	636806.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
1605	ALL	636846.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
1606	ALL	636886.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
1607	ALL	636926.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
1608	ALL	636966.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
1609	ALL	637006.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
1610	ALL	637046.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1611	ALL	637086.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1612	ALL	637126.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1613	ALL	637166.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-05
1614	ALL	637206.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1615	ALL	637246.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
1616	ALL	637286.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
1617	ALL	637846.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1618	ALL	637886.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
1619	ALL	637926.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1620	ALL	637966.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
1621	ALL	638086.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
1622	ALL	638126.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
1623	ALL	638166.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
1624	ALL	638206.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
1625	ALL	638246.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1626	ALL	638286.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
1627	ALL	638326.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
1628	ALL	638366.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06
1629	ALL	638406.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
1630	ALL	638446.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06
1631	ALL	638486.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06
1632	ALL	638526.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-06
1633	ALL	638566.2	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-06
1634	ALL	634766.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
1635	ALL	634806.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
1636	ALL	634846.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1637	ALL	634886.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
1638	ALL	634926.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
1639	ALL	634966.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1640	ALL	635006.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
1641	ALL	635046.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
1642	ALL	635086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
1643	ALL	635126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1644	ALL	635166.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
1645	ALL	635206.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1646	ALL	635246.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
1647	ALL	635286.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1648	ALL	635326.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1649	ALL	635366.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1650	ALL	635406.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1651	ALL	635446.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
1652	ALL	635486.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
1653	ALL	635526.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
1654	ALL	635566.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
1655	ALL	635606.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
1656	ALL	635646.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
1657	ALL	635686.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
1658	ALL	635726.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1659	ALL	635806.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
1660	ALL	635886.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
1661	ALL	635926.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
1662	ALL	635966.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
1663	ALL	636046.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
1664	ALL	636086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1665	ALL	636126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1666	ALL	636166.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1667	ALL	636286.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1668	ALL	636326.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1669	ALL	636366.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1670	ALL	636406.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1671	ALL	636446.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1672	ALL	636486.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1673	ALL	636526.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1674	ALL	636566.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
1675	ALL	636606.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1676	ALL	636646.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1677	ALL	636686.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1678	ALL	636726.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1679	ALL	636766.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
1680	ALL	636806.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
1681	ALL	636846.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1682	ALL	636886.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
1683	ALL	636966.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-05
1684	ALL	637006.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1685	ALL	637046.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
1686	ALL	637086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1687	ALL	637126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1688	ALL	637166.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1689	ALL	637206.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1690	ALL	637246.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
1691	ALL	637286.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05

1692	ALL	637846.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1693	ALL	637886.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1694	ALL	637926.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1695	ALL	637966.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
1696	ALL	638086.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1697	ALL	638126.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1698	ALL	638166.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1699	ALL	638206.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
1700	ALL	638246.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
1701	ALL	638286.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
1702	ALL	638326.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-06
1703	ALL	638366.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06
1704	ALL	638406.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06
1705	ALL	638446.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-06
1706	ALL	638486.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06
1707	ALL	638526.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06
1708	ALL	638566.2	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06
1709	ALL	634726.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-06
1710	ALL	634766.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
1711	ALL	634806.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1712	ALL	634846.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
1713	ALL	634886.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
1714	ALL	634926.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
1715	ALL	634966.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
1716	ALL	635006.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
1717	ALL	635046.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
1718	ALL	635086.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
1719	ALL	635126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1720	ALL	635166.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
1721	ALL	635246.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1722	ALL	635286.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1723	ALL	635326.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
1724	ALL	635366.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
1725	ALL	635406.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
1726	ALL	635446.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
1727	ALL	635486.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
1728	ALL	635526.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1729	ALL	635566.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
1730	ALL	635606.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
1731	ALL	635646.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
1732	ALL	635686.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
1733	ALL	635726.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
1734	ALL	635766.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
1735	ALL	635806.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
1736	ALL	635846.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
1737	ALL	635886.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
1738	ALL	635926.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
1739	ALL	636006.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05
1740	ALL	636046.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
1741	ALL	636086.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1742	ALL	636126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1743	ALL	636246.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1744	ALL	636286.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1745	ALL	636326.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1746	ALL	636366.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1747	ALL	636406.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1748	ALL	636446.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
1749	ALL	636486.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1750	ALL	636526.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1751	ALL	636566.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
1752	ALL	636606.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
1753	ALL	636646.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1754	ALL	636686.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1755	ALL	636726.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1756	ALL	636766.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1757	ALL	636806.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
1758	ALL	636846.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1759	ALL	636886.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
1760	ALL	636926.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
1761	ALL	637006.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
1762	ALL	637046.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
1763	ALL	637086.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1764	ALL	637126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1765	ALL	637166.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1766	ALL	637206.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
1767	ALL	637246.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
1768	ALL	637286.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1769	ALL	637886.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
1770	ALL	637926.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
1771	ALL	637966.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
1772	ALL	638086.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
1773	ALL	638126.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
1774	ALL	638166.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
1775	ALL	638206.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
1776	ALL	638246.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-06
1777	ALL	638286.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-06
1778	ALL	638326.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06
1779	ALL	638366.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-06
1780	ALL	638406.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06
1781	ALL	638446.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06
1782	ALL	638486.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06
1783	ALL	638526.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06
1784	ALL	638566.2	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06
1785	ALL	634726.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05

1786	ALL	634766.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
1787	ALL	634806.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
1788	ALL	634846.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
1789	ALL	634886.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
1790	ALL	634926.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
1791	ALL	634966.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1792	ALL	635006.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
1793	ALL	635046.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
1794	ALL	635086.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
1795	ALL	635126.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1796	ALL	635166.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
1797	ALL	635286.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1798	ALL	635326.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
1799	ALL	635366.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
1800	ALL	635406.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
1801	ALL	635446.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
1802	ALL	635486.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1803	ALL	635526.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1804	ALL	635566.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
1805	ALL	635606.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
1806	ALL	635646.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
1807	ALL	635686.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
1808	ALL	635726.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
1809	ALL	635766.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-05
1810	ALL	635806.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
1811	ALL	635846.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
1812	ALL	635886.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1813	ALL	635926.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
1814	ALL	635966.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
1815	ALL	636006.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
1816	ALL	636046.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
1817	ALL	636206.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1818	ALL	636246.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1819	ALL	636286.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1820	ALL	636326.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1821	ALL	636366.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1822	ALL	636406.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1823	ALL	636446.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
1824	ALL	636486.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
1825	ALL	636526.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1826	ALL	636566.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1827	ALL	636606.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
1828	ALL	636646.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1829	ALL	636686.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1830	ALL	636726.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1831	ALL	636766.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1832	ALL	636806.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
1833	ALL	636846.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
1834	ALL	636886.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
1835	ALL	636926.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
1836	ALL	636966.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
1837	ALL	637046.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
1838	ALL	637086.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
1839	ALL	637126.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
1840	ALL	637166.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1841	ALL	637206.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
1842	ALL	637246.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
1843	ALL	637286.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
1844	ALL	637886.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06
1845	ALL	637926.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06
1846	ALL	637966.2	4271152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06
1847	ALL	634686.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
1848	ALL	634726.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
1849	ALL	634766.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
1850	ALL	634806.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
1851	ALL	634846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
1852	ALL	634886.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
1853	ALL	634926.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1854	ALL	634966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
1855	ALL	635006.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
1856	ALL	635046.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
1857	ALL	635086.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
1858	ALL	635126.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
1859	ALL	635166.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
1860	ALL	635246.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
1861	ALL	635326.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1862	ALL	635366.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
1863	ALL	635406.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
1864	ALL	635446.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
1865	ALL	635486.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-05
1866	ALL	635526.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
1867	ALL	635566.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
1868	ALL	635606.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
1869	ALL	635646.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-05
1870	ALL	635686.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05
1871	ALL	635726.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
1872	ALL	635766.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-05
1873	ALL	635846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
1874	ALL	635926.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
1875	ALL	635966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
1876	ALL	636006.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
1877	ALL	636166.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1878	ALL	636206.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1879	ALL	636246.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05

1880	ALL	636286.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1881	ALL	636326.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
1882	ALL	636366.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1883	ALL	636406.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1884	ALL	636446.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
1885	ALL	636486.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
1886	ALL	636526.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
1887	ALL	636566.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1888	ALL	636606.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1889	ALL	636646.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-05
1890	ALL	636686.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
1891	ALL	636726.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
1892	ALL	636766.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
1893	ALL	636806.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1894	ALL	636846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
1895	ALL	636886.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
1896	ALL	636926.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
1897	ALL	636966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1898	ALL	637006.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
1899	ALL	637046.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1900	ALL	637086.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
1901	ALL	637206.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
1902	ALL	637246.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
1903	ALL	637806.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-06
1904	ALL	637846.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06
1905	ALL	637886.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06
1906	ALL	637926.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-06
1907	ALL	637966.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06
1908	ALL	638086.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06
1909	ALL	638126.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06
1910	ALL	638166.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06
1911	ALL	638206.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-06
1912	ALL	638246.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-06
1913	ALL	638286.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06
1914	ALL	638326.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-06
1915	ALL	638366.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06
1916	ALL	638406.2	4271192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06
1917	ALL	634646.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
1918	ALL	634686.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
1919	ALL	634726.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
1920	ALL	634766.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
1921	ALL	634806.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
1922	ALL	634846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
1923	ALL	634886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
1924	ALL	634926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1925	ALL	634966.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1926	ALL	635006.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
1927	ALL	635046.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-05
1928	ALL	635086.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
1929	ALL	635126.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
1930	ALL	635206.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1931	ALL	635246.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
1932	ALL	635366.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
1933	ALL	635406.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
1934	ALL	635446.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
1935	ALL	635486.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
1936	ALL	635526.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
1937	ALL	635566.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
1938	ALL	635606.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
1939	ALL	635646.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
1940	ALL	635686.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
1941	ALL	635726.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-05
1942	ALL	635766.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
1943	ALL	635806.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
1944	ALL	635846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
1945	ALL	635886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
1946	ALL	635926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
1947	ALL	636126.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
1948	ALL	636166.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
1949	ALL	636206.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
1950	ALL	636246.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
1951	ALL	636286.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
1952	ALL	636326.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
1953	ALL	636366.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1954	ALL	636406.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
1955	ALL	636446.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
1956	ALL	636486.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1957	ALL	636526.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-05
1958	ALL	636566.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1959	ALL	636606.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1960	ALL	636646.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
1961	ALL	636686.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
1962	ALL	636726.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
1963	ALL	636766.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
1964	ALL	636806.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
1965	ALL	636846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
1966	ALL	636886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
1967	ALL	636926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
1968	ALL	636966.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
1969	ALL	637006.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-05
1970	ALL	637206.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
1971	ALL	637246.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
1972	ALL	637806.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06
1973	ALL	637846.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06

1974	ALL	637886.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-06
1975	ALL	637926.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-06
1976	ALL	637966.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06
1977	ALL	638086.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-06
1978	ALL	638126.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06
1979	ALL	638166.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-06
1980	ALL	638206.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-06
1981	ALL	638246.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-06
1982	ALL	638286.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-06
1983	ALL	638326.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-06
1984	ALL	638366.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06
1985	ALL	638406.2	4271232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-06
1986	ALL	634686.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
1987	ALL	634726.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
1988	ALL	634766.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
1989	ALL	634806.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
1990	ALL	634846.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
1991	ALL	634886.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
1992	ALL	634926.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
1993	ALL	634966.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
1994	ALL	635006.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
1995	ALL	635046.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
1996	ALL	635086.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05
1997	ALL	635126.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
1998	ALL	635166.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05
1999	ALL	635206.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05
2000	ALL	635246.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
2001	ALL	635286.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
2002	ALL	635366.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
2003	ALL	635406.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
2004	ALL	635446.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
2005	ALL	635486.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
2006	ALL	635526.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
2007	ALL	635566.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
2008	ALL	635606.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
2009	ALL	635646.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
2010	ALL	635686.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
2011	ALL	635726.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
2012	ALL	635766.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
2013	ALL	635806.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
2014	ALL	635846.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
2015	ALL	636046.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
2016	ALL	636086.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
2017	ALL	636126.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
2018	ALL	636166.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
2019	ALL	636206.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
2020	ALL	636246.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
2021	ALL	636286.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
2022	ALL	636326.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
2023	ALL	636366.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
2024	ALL	636406.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
2025	ALL	636446.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
2026	ALL	636486.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
2027	ALL	636526.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
2028	ALL	636566.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
2029	ALL	636606.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
2030	ALL	636646.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
2031	ALL	636686.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
2032	ALL	636726.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
2033	ALL	636766.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05
2034	ALL	636806.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
2035	ALL	636846.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05
2036	ALL	636886.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
2037	ALL	636926.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
2038	ALL	636966.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
2039	ALL	637006.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
2040	ALL	637046.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
2041	ALL	637806.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06
2042	ALL	637846.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06
2043	ALL	637886.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06
2044	ALL	637926.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06
2045	ALL	637966.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-06
2046	ALL	638086.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-06
2047	ALL	638126.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-06
2048	ALL	638166.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06
2049	ALL	638206.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06
2050	ALL	638246.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06
2051	ALL	638286.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06
2052	ALL	638326.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06
2053	ALL	638366.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06
2054	ALL	638406.2	4271272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06
2055	ALL	634766.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
2056	ALL	634806.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
2057	ALL	634846.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
2058	ALL	634886.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
2059	ALL	634926.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
2060	ALL	634966.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
2061	ALL	635006.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
2062	ALL	635046.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
2063	ALL	635086.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-05
2064	ALL	635126.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
2065	ALL	635166.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
2066	ALL	635206.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-05
2067	ALL	635246.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05

2068	ALL	635286.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
2069	ALL	635326.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
2070	ALL	635406.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
2071	ALL	635446.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
2072	ALL	635486.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-05
2073	ALL	635526.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-05
2074	ALL	635566.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05
2075	ALL	635606.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-05
2076	ALL	635646.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
2077	ALL	635686.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05
2078	ALL	635726.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
2079	ALL	635766.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-05
2080	ALL	635966.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
2081	ALL	636006.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
2082	ALL	636046.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
2083	ALL	636086.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05
2084	ALL	636126.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05
2085	ALL	636166.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
2086	ALL	636206.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
2087	ALL	636246.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
2088	ALL	636286.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
2089	ALL	636326.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
2090	ALL	636366.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
2091	ALL	636406.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
2092	ALL	636446.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
2093	ALL	636486.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
2094	ALL	636526.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
2095	ALL	636566.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
2096	ALL	636606.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
2097	ALL	636646.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
2098	ALL	636686.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
2099	ALL	636726.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
2100	ALL	636766.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
2101	ALL	636806.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
2102	ALL	636846.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
2103	ALL	636886.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
2104	ALL	636926.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-05
2105	ALL	636966.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
2106	ALL	637006.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
2107	ALL	637046.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-05
2108	ALL	637086.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
2109	ALL	637886.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-06
2110	ALL	637926.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06
2111	ALL	637966.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06
2112	ALL	638086.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06
2113	ALL	638126.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06
2114	ALL	638166.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06
2115	ALL	638206.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06
2116	ALL	638246.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06
2117	ALL	638286.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06
2118	ALL	638326.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-06
2119	ALL	638366.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
2120	ALL	638406.2	4271312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06
2121	ALL	634806.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
2122	ALL	634846.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
2123	ALL	634886.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
2124	ALL	634926.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
2125	ALL	634966.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
2126	ALL	635006.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
2127	ALL	635046.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
2128	ALL	635126.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
2129	ALL	635166.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
2130	ALL	635206.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
2131	ALL	635246.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
2132	ALL	635286.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
2133	ALL	635326.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-05
2134	ALL	635366.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
2135	ALL	635446.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
2136	ALL	635486.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
2137	ALL	635526.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-05
2138	ALL	635566.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-05
2139	ALL	635606.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05
2140	ALL	635646.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
2141	ALL	635686.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
2142	ALL	635846.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
2143	ALL	635886.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
2144	ALL	635926.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
2145	ALL	635966.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
2146	ALL	636006.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
2147	ALL	636046.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-05
2148	ALL	636086.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
2149	ALL	636126.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
2150	ALL	636166.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
2151	ALL	636206.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
2152	ALL	636246.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
2153	ALL	636286.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-05
2154	ALL	636326.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
2155	ALL	636366.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
2156	ALL	636646.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
2157	ALL	636686.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
2158	ALL	636726.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
2159	ALL	636766.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76

2162	ALL	636886.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
2163	ALL	636926.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
2164	ALL	636966.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
2165	ALL	637006.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
2166	ALL	637046.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
2167	ALL	637086.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
2168	ALL	637886.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06
2169	ALL	637926.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06
2170	ALL	637966.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06
2171	ALL	638086.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06
2172	ALL	638126.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06
2173	ALL	638166.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06
2174	ALL	638206.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06
2175	ALL	638246.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
2176	ALL	638286.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
2177	ALL	638326.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06
2178	ALL	638366.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06
2179	ALL	638406.2	4271352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06
2180	ALL	634886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
2181	ALL	634926.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
2182	ALL	634966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
2183	ALL	635006.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
2184	ALL	635086.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
2185	ALL	635126.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
2186	ALL	635166.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
2187	ALL	635206.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
2188	ALL	635246.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
2189	ALL	635286.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
2190	ALL	635326.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
2191	ALL	635366.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
2192	ALL	635406.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-05
2193	ALL	635446.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
2194	ALL	635486.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
2195	ALL	635526.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
2196	ALL	635566.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-05
2197	ALL	635606.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
2198	ALL	635766.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-05
2199	ALL	635806.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
2200	ALL	635846.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-05
2201	ALL	635886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05
2202	ALL	635926.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
2203	ALL	635966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
2204	ALL	636006.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
2205	ALL	636046.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
2206	ALL	636086.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
2207	ALL	636126.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-05
2208	ALL	636166.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
2209	ALL	636206.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
2210	ALL	636246.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
2211	ALL	636286.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
2212	ALL	636326.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
2213	ALL	636366.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-05
2214	ALL	636406.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
2215	ALL	636446.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-05
2216	ALL	636486.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
2217	ALL	636526.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
2218	ALL	636566.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
2219	ALL	636606.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-05
2220	ALL	636646.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-05
2221	ALL	636686.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05
2222	ALL	636726.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
2223	ALL	636766.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-05
2224	ALL	636806.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
2225	ALL	636846.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
2226	ALL	636886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-05
2227	ALL	636926.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
2228	ALL	636966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
2229	ALL	637006.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
2230	ALL	637046.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05
2231	ALL	637886.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06
2232	ALL	637926.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06
2233	ALL	637966.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06
2234	ALL	638086.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06
2235	ALL	638126.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06
2236	ALL	638166.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06
2237	ALL	638206.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-06
2238	ALL	638246.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06
2239	ALL	638326.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06
2240	ALL	638366.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-06
2241	ALL	638406.2	4271392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06
2242	ALL	634926.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
2243	ALL	634966.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
2244	ALL	635006.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
2245	ALL	635046.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
2246	ALL	635086.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
2247	ALL	635126.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
2248	ALL	635166.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
2249	ALL	635206.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
2250	ALL	635246.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
2251	ALL	635286.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-05
2252	ALL	635326.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
2253	ALL	635366.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-05
2254	ALL	635406.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05
2255	ALL	635486.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05

2256	ALL	635526.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
2257	ALL	635686.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
2258	ALL	635726.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
2259	ALL	635766.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
2260	ALL	635806.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
2261	ALL	635846.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-05
2262	ALL	635886.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
2263	ALL	635926.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
2264	ALL	635966.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
2265	ALL	636006.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
2266	ALL	636046.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-05
2267	ALL	636086.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
2268	ALL	636126.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-05
2269	ALL	636166.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
2270	ALL	636206.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
2271	ALL	637886.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06
2272	ALL	637926.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-06
2273	ALL	637966.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06
2274	ALL	638086.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
2275	ALL	638126.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06
2276	ALL	638166.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06
2277	ALL	638206.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06
2278	ALL	638246.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06
2279	ALL	638366.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-06
2280	ALL	638406.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-06
2281	ALL	635046.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
2282	ALL	635086.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-05
2283	ALL	635126.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
2284	ALL	635166.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
2285	ALL	635206.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
2286	ALL	635246.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
2287	ALL	635286.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
2288	ALL	635326.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-05
2289	ALL	635366.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
2290	ALL	635406.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.33E-05
2291	ALL	635446.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05
2292	ALL	635606.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05
2293	ALL	635646.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05
2294	ALL	635686.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05
2295	ALL	635726.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05
2296	ALL	635766.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
2297	ALL	635806.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
2298	ALL	635846.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05
2299	ALL	635886.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-05
2300	ALL	635926.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-05
2301	ALL	635966.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05
2302	ALL	637886.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06
2303	ALL	637926.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06
2304	ALL	637966.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-06
2305	ALL	638086.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06
2306	ALL	638126.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06
2307	ALL	638166.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06
2308	ALL	638206.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06
2309	ALL	638326.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06
2310	ALL	638366.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-06
2311	ALL	638406.2	4271472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-06
2312	ALL	634126.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-06
2313	ALL	634166.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06
2314	ALL	634206.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06
2315	ALL	634246.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06
2316	ALL	634286.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06
2317	ALL	634326.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06
2318	ALL	634366.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-06
2319	ALL	634406.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06
2320	ALL	634446.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-06
2321	ALL	635046.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
2322	ALL	635086.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
2323	ALL	635126.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
2324	ALL	635166.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-05
2325	ALL	635206.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
2326	ALL	635246.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
2327	ALL	635286.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
2328	ALL	635326.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
2329	ALL	635526.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05
2330	ALL	635726.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
2331	ALL	635766.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05
2332	ALL	635806.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-05
2333	ALL	635846.2	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2334	ALL	634126.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-06
2335	ALL	634166.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06
2336	ALL	634206.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06
2337	ALL	634246.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06
2338	ALL	634286.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06
2339	ALL	634326.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06
2340	ALL	634366.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06
2341	ALL	634406.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-06
2342	ALL	634446.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06
2343	ALL	634486.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2344	ALL	634526.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2345	ALL	634566.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
2346	ALL	635446.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05
2347	ALL	635486.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
2348	ALL	635566.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
2349	ALL	635606.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04

2350	ALL	635686.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
2351	ALL	635726.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
2352	ALL	635766.2	4271552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
2353	ALL	634006.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06
2354	ALL	634046.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06
2355	ALL	634086.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-06
2356	ALL	634126.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06
2357	ALL	634166.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-06
2358	ALL	634206.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06
2359	ALL	634246.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06
2360	ALL	634286.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06
2361	ALL	634326.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-06
2362	ALL	634366.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06
2363	ALL	634406.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06
2364	ALL	634446.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-06
2365	ALL	634486.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
2366	ALL	634526.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
2367	ALL	634566.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
2368	ALL	634606.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
2369	ALL	634646.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
2370	ALL	635086.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
2371	ALL	635126.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-05
2372	ALL	635166.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-05
2373	ALL	635206.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-05
2374	ALL	635246.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
2375	ALL	635366.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05
2376	ALL	635486.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
2377	ALL	635526.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
2378	ALL	635566.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
2379	ALL	635646.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
2380	ALL	635686.2	4271592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
2381	ALL	634046.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06
2382	ALL	634086.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06
2383	ALL	634126.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06
2384	ALL	634166.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06
2385	ALL	634206.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06
2386	ALL	634246.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06
2387	ALL	634286.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06
2388	ALL	634326.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06
2389	ALL	634366.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-06
2390	ALL	634406.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-06
2391	ALL	634446.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
2392	ALL	634486.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
2393	ALL	634526.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
2394	ALL	634566.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
2395	ALL	634606.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
2396	ALL	634646.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
2397	ALL	634686.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
2398	ALL	635086.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
2399	ALL	635126.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
2400	ALL	635166.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
2401	ALL	635286.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
2402	ALL	635406.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
2403	ALL	635446.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
2404	ALL	635486.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
2405	ALL	635526.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
2406	ALL	635606.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
2407	ALL	635646.2	4271632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
2408	ALL	634086.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-06
2409	ALL	634126.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-06
2410	ALL	634166.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-06
2411	ALL	634206.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06
2412	ALL	634246.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06
2413	ALL	634286.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06
2414	ALL	634326.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-06
2415	ALL	634366.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-06
2416	ALL	634406.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06
2417	ALL	634446.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2418	ALL	634486.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
2419	ALL	634526.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
2420	ALL	634566.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
2421	ALL	634606.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
2422	ALL	634646.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
2423	ALL	634686.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
2424	ALL	634726.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
2425	ALL	635206.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05
2426	ALL	635326.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
2427	ALL	635366.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
2428	ALL	635406.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
2429	ALL	635446.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
2430	ALL	635486.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
2431	ALL	635566.2	4271672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-04
2432	ALL	634126.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06
2433	ALL	634166.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06
2434	ALL	634206.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-06
2435	ALL	634246.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-06
2436	ALL	634286.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06
2437	ALL	634326.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06
2438	ALL	634366.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
2439	ALL	634406.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-06
2440	ALL	634446.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
2441	ALL	634486.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
2442	ALL	634526.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2443	ALL	634566.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05

2444	ALL	634606.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
2445	ALL	634646.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
2446	ALL	634686.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
2447	ALL	634726.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
2448	ALL	634766.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
2449	ALL	635166.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05
2450	ALL	635246.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
2451	ALL	635286.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
2452	ALL	635326.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
2453	ALL	635366.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
2454	ALL	635406.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
2455	ALL	635446.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
2456	ALL	635526.2	4271712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-04
2457	ALL	634206.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06
2458	ALL	634246.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06
2459	ALL	634286.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.15E-06
2460	ALL	634326.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06
2461	ALL	634366.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-06
2462	ALL	634406.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2463	ALL	634446.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
2464	ALL	634486.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
2465	ALL	634526.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
2466	ALL	634566.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
2467	ALL	634606.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
2468	ALL	634646.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
2469	ALL	634726.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
2470	ALL	634766.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
2471	ALL	634806.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
2472	ALL	635206.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
2473	ALL	635246.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
2474	ALL	635286.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
2475	ALL	635326.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
2476	ALL	635366.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
2477	ALL	635406.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
2478	ALL	635486.2	4271752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-04
2479	ALL	634366.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-06
2480	ALL	634406.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
2481	ALL	634446.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2482	ALL	634486.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
2483	ALL	634526.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
2484	ALL	634566.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
2485	ALL	634606.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
2486	ALL	634646.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
2487	ALL	634726.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
2488	ALL	634766.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
2489	ALL	634806.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
2490	ALL	634846.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05
2491	ALL	635046.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05
2492	ALL	635206.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
2493	ALL	635246.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
2494	ALL	635286.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
2495	ALL	635326.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
2496	ALL	635446.2	4271792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04
2497	ALL	634606.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
2498	ALL	634646.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
2499	ALL	634686.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
2500	ALL	634726.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
2501	ALL	634766.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05
2502	ALL	634806.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-05
2503	ALL	634846.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-05
2504	ALL	635006.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-05
2505	ALL	635046.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
2506	ALL	635126.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
2507	ALL	635166.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
2508	ALL	635206.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
2509	ALL	635246.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
2510	ALL	635286.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
2511	ALL	635366.2	4271832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-04
2512	ALL	635006.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05
2513	ALL	635046.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-05
2514	ALL	635086.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
2515	ALL	635126.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
2516	ALL	635166.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
2517	ALL	635326.2	4271872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-04
2518	ALL	635006.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
2519	ALL	635046.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
2520	ALL	635086.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
2521	ALL	635126.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
2522	ALL	635166.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
2523	ALL	635206.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
2524	ALL	635246.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04
2525	ALL	635286.2	4271912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04
2526	ALL	635126.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
2527	ALL	635166.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
2528	ALL	635206.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
2529	ALL	635246.2	4271952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-04
2530	ALL	635166.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-04
2531	ALL	635206.2	4271992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04
2532	ALL	633966.2	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-06
2533	ALL	634966.2	4272232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04
2534	ALL	634966.2	4272272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-04
2535	ALL	635006.2	4272272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-04
2536	ALL	634926.2	4272312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
2537	ALL	634966.2	4272312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04

2538	ALL	638685.9	4268031	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06
2539	ALL	638365.9	4268071	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06
2540	ALL	638405.9	4268071	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06
2541	ALL	638685.9	4268071	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-06
2542	ALL	638205.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06
2543	ALL	638245.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-06
2544	ALL	638285.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-06
2545	ALL	638325.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06
2546	ALL	638365.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06
2547	ALL	638405.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-06
2548	ALL	638685.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-06
2549	ALL	638925.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06
2550	ALL	638965.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06
2551	ALL	639005.9	4268111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06
2552	ALL	638085.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-06
2553	ALL	638125.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06
2554	ALL	638165.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06
2555	ALL	638205.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06
2556	ALL	638245.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-06
2557	ALL	638285.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-06
2558	ALL	638325.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-06
2559	ALL	638365.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06
2560	ALL	638405.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06
2561	ALL	638645.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-06
2562	ALL	638685.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-06
2563	ALL	638925.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06
2564	ALL	638965.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-06
2565	ALL	639005.9	4268151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-06
2566	ALL	638085.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06
2567	ALL	638125.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06
2568	ALL	638165.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06
2569	ALL	638205.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-06
2570	ALL	638245.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-06
2571	ALL	638285.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06
2572	ALL	638325.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-06
2573	ALL	638365.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-06
2574	ALL	638405.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06
2575	ALL	638645.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06
2576	ALL	638685.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06
2577	ALL	638725.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06
2578	ALL	638765.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06
2579	ALL	638805.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06
2580	ALL	638845.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06
2581	ALL	638885.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-06
2582	ALL	638925.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-06
2583	ALL	638965.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06
2584	ALL	639005.9	4268191	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06
2585	ALL	638085.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06
2586	ALL	638125.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06
2587	ALL	638165.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06
2588	ALL	638205.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06
2589	ALL	638245.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06
2590	ALL	638285.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-06
2591	ALL	638325.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06
2592	ALL	638645.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06
2593	ALL	638685.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06
2594	ALL	638725.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-06
2595	ALL	638765.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-06
2596	ALL	638805.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06
2597	ALL	638845.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06
2598	ALL	638885.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06
2599	ALL	638925.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-06
2600	ALL	638965.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06
2601	ALL	639005.9	4268231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06
2602	ALL	638125.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-06
2603	ALL	638165.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-06
2604	ALL	638205.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-06
2605	ALL	638245.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06
2606	ALL	638285.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06
2607	ALL	638685.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-06
2608	ALL	638725.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-06
2609	ALL	638765.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06
2610	ALL	638805.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-06
2611	ALL	638845.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-06
2612	ALL	638885.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06
2613	ALL	638925.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-06
2614	ALL	638965.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-06
2615	ALL	639005.9	4268271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06
2616	ALL	638725.9	4268311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2617	ALL	638765.9	4268311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2618	ALL	638805.9	4268311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06
2619	ALL	638845.9	4268311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06
2620	ALL	638885.9	4268311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06
2621	ALL	638925.9	4268311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-06
2622	ALL	638965.9	4268311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-06
2623	ALL	639005.9	4268311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
2624	ALL	638765.9	4268351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
2625	ALL	638805.9	4268351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2626	ALL	638845.9	4268351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-06
2627	ALL	638885.9	4268351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06
2628	ALL	638925.9	4268351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06
2629	ALL	638965.9	4268351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-06
2630	ALL	639005.9	4268351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06
2631	ALL	638805.9	4268391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05

2632	ALL	638845.9	4268391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2633	ALL	638885.9	4268391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06
2634	ALL	638925.9	4268391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06
2635	ALL	638965.9	4268391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06
2636	ALL	639005.9	4268391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06
2637	ALL	638845.9	4268431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
2638	ALL	638885.9	4268431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-06
2639	ALL	638925.9	4268431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-06
2640	ALL	638965.9	4268431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06
2641	ALL	639005.9	4268431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06
2642	ALL	638845.9	4268471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
2643	ALL	638885.9	4268471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06
2644	ALL	638925.9	4268471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-06
2645	ALL	638965.9	4268471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06
2646	ALL	639005.9	4268471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06
2647	ALL	638085.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-06
2648	ALL	638125.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-06
2649	ALL	638165.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
2650	ALL	638205.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-06
2651	ALL	638245.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06
2652	ALL	638285.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-06
2653	ALL	638325.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06
2654	ALL	638925.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06
2655	ALL	638965.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06
2656	ALL	639005.9	4268511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-06
2657	ALL	638085.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06
2658	ALL	638125.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06
2659	ALL	638165.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-06
2660	ALL	638205.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-06
2661	ALL	638245.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06
2662	ALL	638285.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-06
2663	ALL	638325.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-06
2664	ALL	638365.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06
2665	ALL	638405.9	4268551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-06
2666	ALL	638085.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-06
2667	ALL	638125.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
2668	ALL	638165.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06
2669	ALL	638205.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-06
2670	ALL	638245.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06
2671	ALL	638285.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06
2672	ALL	638325.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06
2673	ALL	638365.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-06
2674	ALL	638405.9	4268591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06
2675	ALL	638085.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-06
2676	ALL	638125.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06
2677	ALL	638165.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06
2678	ALL	638205.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06
2679	ALL	638245.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06
2680	ALL	638285.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-06
2681	ALL	638325.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06
2682	ALL	638365.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06
2683	ALL	638405.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06
2684	ALL	638445.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
2685	ALL	638765.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05
2686	ALL	638805.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
2687	ALL	638845.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
2688	ALL	638885.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
2689	ALL	638925.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2690	ALL	638965.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-06
2691	ALL	639005.9	4268631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-06
2692	ALL	638085.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06
2693	ALL	638125.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-06
2694	ALL	638165.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06
2695	ALL	638205.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-06
2696	ALL	638245.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06
2697	ALL	638285.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06
2698	ALL	638325.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06
2699	ALL	638365.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-06
2700	ALL	638405.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2701	ALL	638445.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
2702	ALL	638645.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
2703	ALL	638685.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
2704	ALL	638725.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
2705	ALL	638765.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
2706	ALL	638805.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
2707	ALL	638845.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
2708	ALL	638885.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
2709	ALL	638925.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2710	ALL	638965.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06
2711	ALL	639005.9	4268671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06
2712	ALL	638085.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06
2713	ALL	638125.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06
2714	ALL	638165.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-06
2715	ALL	638205.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06
2716	ALL	638245.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-06
2717	ALL	638285.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06
2718	ALL	638325.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06
2719	ALL	638365.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06
2720	ALL	638405.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
2721	ALL	638445.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
2722	ALL	638645.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-05
2723	ALL	638685.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05
2724	ALL	638725.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
2725	ALL	638765.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05

2726	ALL	638805.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
2727	ALL	638845.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
2728	ALL	638885.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
2729	ALL	638925.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
2730	ALL	638965.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06
2731	ALL	639005.9	4268711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06
2732	ALL	638085.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06
2733	ALL	638125.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
2734	ALL	638165.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06
2735	ALL	638205.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-06
2736	ALL	638245.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06
2737	ALL	638285.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06
2738	ALL	638325.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06
2739	ALL	638365.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06
2740	ALL	638405.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
2741	ALL	638445.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
2742	ALL	638645.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05
2743	ALL	638685.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
2744	ALL	638725.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-05
2745	ALL	638765.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
2746	ALL	638805.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
2747	ALL	638845.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
2748	ALL	638885.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2749	ALL	638925.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
2750	ALL	638965.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06
2751	ALL	639005.9	4268751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06
2752	ALL	638085.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06
2753	ALL	638125.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06
2754	ALL	638165.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06
2755	ALL	638205.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06
2756	ALL	638245.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06
2757	ALL	638285.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06
2758	ALL	638325.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06
2759	ALL	638365.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2760	ALL	638405.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
2761	ALL	638445.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
2762	ALL	638685.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05
2763	ALL	638725.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
2764	ALL	638765.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
2765	ALL	638805.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
2766	ALL	638845.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
2767	ALL	638885.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
2768	ALL	638925.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
2769	ALL	638965.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06
2770	ALL	639005.9	4268791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06
2771	ALL	638085.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06
2772	ALL	638125.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06
2773	ALL	638165.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06
2774	ALL	638205.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-06
2775	ALL	638245.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-06
2776	ALL	638285.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-06
2777	ALL	638325.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-06
2778	ALL	638365.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2779	ALL	638405.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2780	ALL	638445.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
2781	ALL	638725.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05
2782	ALL	638765.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
2783	ALL	638805.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
2784	ALL	638845.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
2785	ALL	638885.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
2786	ALL	638925.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
2787	ALL	638965.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
2788	ALL	639005.9	4268831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
2789	ALL	638085.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-06
2790	ALL	638125.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-06
2791	ALL	638165.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-06
2792	ALL	638205.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06
2793	ALL	638245.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06
2794	ALL	638285.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-06
2795	ALL	638325.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-06
2796	ALL	638365.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
2797	ALL	638405.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
2798	ALL	638445.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
2799	ALL	638485.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
2800	ALL	638725.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-05
2801	ALL	638765.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
2802	ALL	638805.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
2803	ALL	638845.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
2804	ALL	638885.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
2805	ALL	638925.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
2806	ALL	638965.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2807	ALL	639005.9	4268871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06
2808	ALL	638085.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06
2809	ALL	638125.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06
2810	ALL	638165.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06
2811	ALL	638205.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06
2812	ALL	638245.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06
2813	ALL	638285.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06
2814	ALL	638325.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06
2815	ALL	638365.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2816	ALL	638405.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
2817	ALL	638445.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
2818	ALL	638485.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05
2819	ALL	638525.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05

2820	ALL	638565.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05
2821	ALL	638645.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05
2822	ALL	638685.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
2823	ALL	638725.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
2824	ALL	638765.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
2825	ALL	638805.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
2826	ALL	638845.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
2827	ALL	638885.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
2828	ALL	638925.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
2829	ALL	638965.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
2830	ALL	639005.9	4268911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-06
2831	ALL	638645.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-05
2832	ALL	638685.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
2833	ALL	638725.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
2834	ALL	638765.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05
2835	ALL	638805.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
2836	ALL	638845.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-05
2837	ALL	638885.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
2838	ALL	638925.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
2839	ALL	638965.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
2840	ALL	639005.9	4268951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-06
2841	ALL	638845.9	4268991	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
2842	ALL	638885.9	4268991	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
2843	ALL	638925.9	4268991	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
2844	ALL	638965.9	4268991	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2845	ALL	639005.9	4268991	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-06
2846	ALL	638165.9	4269271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06
2847	ALL	638205.9	4269271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-06
2848	ALL	638245.9	4269271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-06
2849	ALL	638285.9	4269271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2850	ALL	638325.9	4269271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
2851	ALL	638365.9	4269271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
2852	ALL	637965.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06
2853	ALL	638005.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06
2854	ALL	638045.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-06
2855	ALL	638085.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-06
2856	ALL	638125.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06
2857	ALL	638165.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06
2858	ALL	638205.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06
2859	ALL	638245.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-06
2860	ALL	638285.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
2861	ALL	638325.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
2862	ALL	638365.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
2863	ALL	638405.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05
2864	ALL	638445.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
2865	ALL	638485.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
2866	ALL	638525.9	4269311	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
2867	ALL	637925.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06
2868	ALL	637965.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06
2869	ALL	638005.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-06
2870	ALL	638125.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06
2871	ALL	638165.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06
2872	ALL	638205.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06
2873	ALL	638245.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06
2874	ALL	638285.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
2875	ALL	638325.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
2876	ALL	638485.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
2877	ALL	638525.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-05
2878	ALL	638565.9	4269351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-05
2879	ALL	637885.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06
2880	ALL	637925.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-06
2881	ALL	638005.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06
2882	ALL	638045.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-06
2883	ALL	638085.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06
2884	ALL	638125.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06
2885	ALL	638165.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-06
2886	ALL	638205.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-06
2887	ALL	638245.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06
2888	ALL	638285.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
2889	ALL	638325.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
2890	ALL	638365.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
2891	ALL	638405.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
2892	ALL	638445.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
2893	ALL	638485.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
2894	ALL	638725.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05
2895	ALL	638765.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
2896	ALL	638805.9	4269391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-05
2897	ALL	637845.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06
2898	ALL	637885.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06
2899	ALL	637965.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06
2900	ALL	638005.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06
2901	ALL	638045.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06
2902	ALL	638085.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-06
2903	ALL	638125.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-06
2904	ALL	638165.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-06
2905	ALL	638205.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06
2906	ALL	638245.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
2907	ALL	638285.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
2908	ALL	638325.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
2909	ALL	638365.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
2910	ALL	638405.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
2911	ALL	638445.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86

2914 ALL	638565.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-05
2915 ALL	638765.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
2916 ALL	638805.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
2917 ALL	638845.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
2918 ALL	638885.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
2919 ALL	638925.9	4269431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
2920 ALL	637805.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06
2921 ALL	637885.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06
2922 ALL	637925.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06
2923 ALL	637965.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06
2924 ALL	638005.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-06
2925 ALL	638045.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-06
2926 ALL	638085.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-06
2927 ALL	638125.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06
2928 ALL	638165.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-06
2929 ALL	638205.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06
2930 ALL	638245.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
2931 ALL	638285.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
2932 ALL	638325.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
2933 ALL	638365.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
2934 ALL	638405.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
2935 ALL	638445.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-05
2936 ALL	638485.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
2937 ALL	638525.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
2938 ALL	638565.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05
2939 ALL	638725.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-05
2940 ALL	638845.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
2941 ALL	638885.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
2942 ALL	638925.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
2943 ALL	638965.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
2944 ALL	639005.9	4269471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
2945 ALL	637765.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06
2946 ALL	637805.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06
2947 ALL	637845.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-06
2948 ALL	637885.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-06
2949 ALL	637925.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06
2950 ALL	637965.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-06
2951 ALL	638005.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06
2952 ALL	638045.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06
2953 ALL	638085.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06
2954 ALL	638125.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-06
2955 ALL	638165.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
2956 ALL	638205.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06
2957 ALL	638245.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
2958 ALL	638285.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
2959 ALL	638325.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
2960 ALL	638365.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
2961 ALL	638405.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
2962 ALL	638445.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
2963 ALL	638485.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05
2964 ALL	638525.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
2965 ALL	638565.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05
2966 ALL	638725.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
2967 ALL	638765.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
2968 ALL	638805.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
2969 ALL	638845.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
2970 ALL	638885.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
2971 ALL	638925.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
2972 ALL	638965.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
2973 ALL	639005.9	4269511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
2974 ALL	637765.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06
2975 ALL	637805.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06
2976 ALL	637845.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06
2977 ALL	637885.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-06
2978 ALL	637925.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06
2979 ALL	637965.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06
2980 ALL	638005.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-06
2981 ALL	638045.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06
2982 ALL	638085.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06
2983 ALL	638125.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06
2984 ALL	638165.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06
2985 ALL	638205.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06
2986 ALL	638245.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
2987 ALL	638285.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
2988 ALL	638325.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
2989 ALL	638365.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
2990 ALL	638405.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
2991 ALL	638445.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-05
2992 ALL	638485.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
2993 ALL	638525.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
2994 ALL	638565.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
2995 ALL	638725.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
2996 ALL	638765.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-05
2997 ALL	638805.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
2998 ALL	638885.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
2999 ALL	638925.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
3000 ALL	638965.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
3001 ALL	639005.9	4269551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
3002 ALL	637725.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-06
3003 ALL	637805.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06
3004 ALL	637845.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06
3005 ALL	637885.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06
3006 ALL	637925.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-06
3007 ALL	638005.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06

3008	ALL	638045.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06
3009	ALL	638085.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-06
3010	ALL	638125.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-06
3011	ALL	638165.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-06
3012	ALL	638205.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-06
3013	ALL	638245.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
3014	ALL	638285.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
3015	ALL	638325.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
3016	ALL	638365.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
3017	ALL	638405.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
3018	ALL	638485.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05
3019	ALL	638565.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05
3020	ALL	638725.9	4269591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
3021	ALL	637964.9	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06
3022	ALL	638645.4	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
3023	ALL	638685.4	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05
3024	ALL	638765.4	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
3025	ALL	638805.4	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
3026	ALL	638885.4	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
3027	ALL	638925.4	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
3028	ALL	638965.4	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
3029	ALL	639005.4	4269592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
3030	ALL	638645.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
3031	ALL	638685.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
3032	ALL	638725.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-05
3033	ALL	638765.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
3034	ALL	638805.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
3035	ALL	638845.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
3036	ALL	638885.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
3037	ALL	638925.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
3038	ALL	638965.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
3039	ALL	639005.4	4269632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
3040	ALL	638645.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
3041	ALL	638685.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
3042	ALL	638725.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
3043	ALL	638765.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
3044	ALL	638805.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
3045	ALL	638845.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
3046	ALL	638925.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
3047	ALL	638965.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
3048	ALL	639005.4	4269672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
3049	ALL	638645.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
3050	ALL	638685.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
3051	ALL	638725.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
3052	ALL	638765.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
3053	ALL	638805.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
3054	ALL	638845.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
3055	ALL	638925.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
3056	ALL	638965.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
3057	ALL	639005.4	4269712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
3058	ALL	638645.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
3059	ALL	638685.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05
3060	ALL	638725.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
3061	ALL	638765.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
3062	ALL	638805.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
3063	ALL	638845.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
3064	ALL	638925.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
3065	ALL	638965.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
3066	ALL	639005.4	4269752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
3067	ALL	638645.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
3068	ALL	638685.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-05
3069	ALL	638725.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
3070	ALL	638765.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
3071	ALL	638805.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
3072	ALL	638845.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
3073	ALL	638885.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-05
3074	ALL	638925.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
3075	ALL	638965.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
3076	ALL	639005.4	4269792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
3077	ALL	638645.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
3078	ALL	638685.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-05
3079	ALL	638725.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
3080	ALL	638765.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
3081	ALL	638805.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05
3082	ALL	638845.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
3083	ALL	638885.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05
3084	ALL	638965.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
3085	ALL	639005.4	4269832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
3086	ALL	638645.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
3087	ALL	638685.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05
3088	ALL	638725.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-05
3089	ALL	638765.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
3090	ALL	638805.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05
3091	ALL	638845.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
3092	ALL	638885.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
3093	ALL	638965.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
3094	ALL	639005.4	4269872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
3095	ALL	638645.4	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
3096	ALL	638685.4	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
3097	ALL	638725.4	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
3098	ALL	638765.4	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
3099	ALL	638805.4	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19

3102	ALL	638965.4	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
3103	ALL	639005.4	4269912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
3104	ALL	638645.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
3105	ALL	638685.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-05
3106	ALL	638725.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
3107	ALL	638765.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
3108	ALL	638805.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
3109	ALL	638845.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
3110	ALL	638885.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
3111	ALL	638925.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
3112	ALL	639005.4	4269952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-06
3113	ALL	638645.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
3114	ALL	638685.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
3115	ALL	638725.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
3116	ALL	638765.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
3117	ALL	638805.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
3118	ALL	638845.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
3119	ALL	638885.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
3120	ALL	638925.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
3121	ALL	638965.4	4269992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05
3122	ALL	638645.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
3123	ALL	638685.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
3124	ALL	638725.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
3125	ALL	638765.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-05
3126	ALL	638805.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
3127	ALL	638845.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
3128	ALL	638885.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
3129	ALL	638925.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
3130	ALL	638965.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
3131	ALL	639005.4	4270032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-06
3132	ALL	638645.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
3133	ALL	638685.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
3134	ALL	638725.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
3135	ALL	638765.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
3136	ALL	638805.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
3137	ALL	638845.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
3138	ALL	638885.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
3139	ALL	638925.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
3140	ALL	638965.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
3141	ALL	639005.4	4270072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-06
3142	ALL	638645.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
3143	ALL	638685.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
3144	ALL	638725.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
3145	ALL	638765.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
3146	ALL	638805.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
3147	ALL	638845.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
3148	ALL	638885.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
3149	ALL	638925.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
3150	ALL	638965.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
3151	ALL	639005.4	4270112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06
3152	ALL	638645.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
3153	ALL	638685.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
3154	ALL	638725.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
3155	ALL	638765.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
3156	ALL	638805.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05
3157	ALL	638845.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
3158	ALL	638885.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
3159	ALL	638925.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
3160	ALL	638965.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
3161	ALL	639005.4	4270152	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-06
3162	ALL	638645.4	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05
3163	ALL	638685.4	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
3164	ALL	638725.4	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-05
3165	ALL	638765.4	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-05
3166	ALL	638805.4	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-05
3167	ALL	638845.4	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
3168	ALL	638965.4	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-06
3169	ALL	639005.4	4270192	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-06
3170	ALL	638845.4	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
3171	ALL	638885.4	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
3172	ALL	638925.4	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
3173	ALL	638965.4	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-06
3174	ALL	639005.4	4270232	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06
3175	ALL	638645.4	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05
3176	ALL	638725.4	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
3177	ALL	638765.4	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
3178	ALL	638805.4	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
3179	ALL	638845.4	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
3180	ALL	639005.4	4270272	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06
3181	ALL	638645.4	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05
3182	ALL	638725.4	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
3183	ALL	638765.4	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
3184	ALL	638925.4	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-06
3185	ALL	638965.4	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-06
3186	ALL	639005.4	4270312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06
3187	ALL	638645.4	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
3188	ALL	638685.4	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
3189	ALL	638725.4	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
3190	ALL	638765.4	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
3191	ALL	638805.4	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
3192	ALL	638925.4	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06
3193	ALL	638965.4	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06
3194	ALL	639005.4	4270352	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06
3195	ALL	638645.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05

3196	ALL	638725.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
3197	ALL	638765.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
3198	ALL	638805.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
3199	ALL	638845.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
3200	ALL	638885.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
3201	ALL	638925.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06
3202	ALL	638965.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06
3203	ALL	639005.4	4270392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06
3204	ALL	638645.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
3205	ALL	638725.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
3206	ALL	638765.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
3207	ALL	638805.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
3208	ALL	638845.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
3209	ALL	638885.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
3210	ALL	638925.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-06
3211	ALL	638965.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-06
3212	ALL	639005.4	4270432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06
3213	ALL	638645.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
3214	ALL	638725.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
3215	ALL	638765.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
3216	ALL	638805.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
3217	ALL	638845.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
3218	ALL	638885.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06
3219	ALL	638925.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-06
3220	ALL	638965.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-06
3221	ALL	639005.4	4270472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-06
3222	ALL	638645.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
3223	ALL	638725.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
3224	ALL	638765.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
3225	ALL	638805.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
3226	ALL	638845.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
3227	ALL	638885.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06
3228	ALL	638925.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06
3229	ALL	638965.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-06
3230	ALL	639005.4	4270512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06
3231	ALL	638645.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
3232	ALL	638725.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
3233	ALL	638765.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
3234	ALL	638805.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
3235	ALL	638845.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06
3236	ALL	638885.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-06
3237	ALL	638925.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-06
3238	ALL	638965.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-06
3239	ALL	639005.4	4270552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06
3240	ALL	638645.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
3241	ALL	638725.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
3242	ALL	638765.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
3243	ALL	638805.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
3244	ALL	638845.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06
3245	ALL	638885.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-06
3246	ALL	638925.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06
3247	ALL	638965.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06
3248	ALL	639005.4	4270592	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06
3249	ALL	638645.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
3250	ALL	638685.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
3251	ALL	638725.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
3252	ALL	638765.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
3253	ALL	638805.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06
3254	ALL	638845.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-06
3255	ALL	638885.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06
3256	ALL	638925.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06
3257	ALL	638965.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06
3258	ALL	639005.4	4270632	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06
3259	ALL	638645.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
3260	ALL	638685.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
3261	ALL	638725.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
3262	ALL	638765.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-06
3263	ALL	638805.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06
3264	ALL	638845.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06
3265	ALL	638885.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06
3266	ALL	638925.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06
3267	ALL	638965.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
3268	ALL	639005.4	4270672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-06
3269	ALL	638645.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
3270	ALL	638685.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
3271	ALL	638725.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-06
3272	ALL	638765.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-06
3273	ALL	638805.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-06
3274	ALL	638845.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06
3275	ALL	638885.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-06
3276	ALL	638925.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-06
3277	ALL	638965.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06
3278	ALL	639005.4	4270712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06
3279	ALL	638645.4	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-06
3280	ALL	638685.4	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-06
3281	ALL	638725.4	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-06
3282	ALL	638765.4	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-06
3283	ALL	638805.4	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-06
3284	ALL	638845.4	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06
3285	ALL	638885.4	4270792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-06
3286	ALL	638645.4	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-06
3287	ALL	638685.4	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06
3288	ALL	638725.4	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-06
3289	ALL	638765.4	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06

3290	ALL	638805.4	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-06
3291	ALL	638845.4	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06
3292	ALL	638885.4	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
3293	ALL	638925.4	4270832	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06
3294	ALL	638645.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06
3295	ALL	638685.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-06
3296	ALL	638725.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-06
3297	ALL	638765.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-06
3298	ALL	638805.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-06
3299	ALL	638845.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06
3300	ALL	638885.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06
3301	ALL	638925.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06
3302	ALL	638965.4	4270872	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-06
3303	ALL	638645.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-06
3304	ALL	638685.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-06
3305	ALL	638725.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-06
3306	ALL	638765.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06
3307	ALL	638805.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06
3308	ALL	638845.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06
3309	ALL	638885.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06
3310	ALL	638925.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06
3311	ALL	638965.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06
3312	ALL	639005.4	4270912	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-06
3313	ALL	638645.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-06
3314	ALL	638685.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-06
3315	ALL	638725.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-06
3316	ALL	638765.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-06
3317	ALL	638805.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06
3318	ALL	638845.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06
3319	ALL	638885.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
3320	ALL	638925.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-06
3321	ALL	638965.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-06
3322	ALL	639005.4	4270952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06
3323	ALL	638645.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06
3324	ALL	638685.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-06
3325	ALL	638725.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-06
3326	ALL	638765.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-06
3327	ALL	638805.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06
3328	ALL	638845.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06
3329	ALL	638885.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06
3330	ALL	638925.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06
3331	ALL	638965.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-06
3332	ALL	639005.4	4270992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06
3333	ALL	638645.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06
3334	ALL	638685.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
3335	ALL	638725.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06
3336	ALL	638765.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06
3337	ALL	638805.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06
3338	ALL	638845.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06
3339	ALL	638885.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06
3340	ALL	638925.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06
3341	ALL	638965.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-06
3342	ALL	639005.4	4271032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06
3343	ALL	638645.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06
3344	ALL	638685.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06
3345	ALL	638725.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-06
3346	ALL	638765.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-06
3347	ALL	638805.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-06
3348	ALL	638845.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06
3349	ALL	638885.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-06
3350	ALL	638925.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06
3351	ALL	638965.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-06
3352	ALL	639005.4	4271072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06
3353	ALL	638645.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-06
3354	ALL	638685.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06
3355	ALL	638725.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06
3356	ALL	638765.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-06
3357	ALL	638805.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06
3358	ALL	638845.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-06
3359	ALL	638885.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06
3360	ALL	638925.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-06
3361	ALL	638965.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-06
3362	ALL	639005.4	4271112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06
3363	ALL	638605.5	4270391	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-05
3364	ALL	638605.5	4270431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-05
3365	ALL	638605.5	4270471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
3366	ALL	638605.5	4270511	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
3367	ALL	638605.5	4270551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
3368	ALL	638605.5	4270591	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
3369	ALL	638605.5	4270631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
3370	ALL	638605.5	4270671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
3371	ALL	638605.5	4270711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
3372	ALL	638605.5	4270791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
3373	ALL	638605.5	4270831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-06
3374	ALL	638605.5	4270871	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-06
3375	ALL	638605.5	4270911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-06
3376	ALL	638605.5	4270951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-06
3377	ALL	638605.5	4270991	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-06
3378	ALL	638605.5	4271031	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-06
3379	ALL	638605.5	4271071	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-06
3380	ALL	638605.5	4271111	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-06
3381	ALL	637060.5	4271428	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59

3384	ALL	637135.1	4271307	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
3385	ALL	637139.6	4271298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
3386	ALL	637089.7	4271237	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
3387	ALL	637081.2	4271244	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
3388	ALL	637067.6	4271230	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-05
3389	ALL	637059.8	4271239	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
3390	ALL	637073.4	4271250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
3391	ALL	637066.3	4271259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05
3392	ALL	637118.9	4271320	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
3393	ALL	637127.9	4271314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
3394	ALL	637148.7	4271344	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
3395	ALL	637056.6	4271416	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
3396	ALL	637022.2	4271432	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
3397	ALL	636978.7	4271446	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
3398	ALL	636956	4271450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
3399	ALL	636917.7	4271450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
3400	ALL	636833.3	4271442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
3401	ALL	636745.1	4271434	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05
3402	ALL	636680.8	4271428	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05
3403	ALL	636581.4	4271418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05
3404	ALL	636489.3	4271410	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
3405	ALL	636414.7	4271412	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-05
3406	ALL	636354.7	4271415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
3407	ALL	636300.6	4271426	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
3408	ALL	636223.1	4271438	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
3409	ALL	636094.4	4271457	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
3410	ALL	636012.5	4271475	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
3411	ALL	635929.3	4271499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
3412	ALL	635832.8	4271537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
3413	ALL	635781.6	4271559	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
3414	ALL	635723.1	4271595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
3415	ALL	635651.4	4271654	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
3416	ALL	635569.5	4271717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
3417	ALL	635497.9	4271763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
3418	ALL	635436.4	4271813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03
3419	ALL	635348.7	4271899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
3420	ALL	635268.2	4271978	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03
3421	ALL	635193.6	4272049	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
3422	ALL	635154.1	4272082	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03
3423	ALL	635102.9	4272027	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04
3424	ALL	635079.5	4272063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
3425	ALL	635082.5	4272094	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04
3426	ALL	635098.5	4272123	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03
3427	ALL	634974.2	4272202	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04
3428	ALL	634974.2	4272285	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04
3429	ALL	634930.3	4272331	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
3430	ALL	634921.6	4272321	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
3431	ALL	634928.9	4272305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
3432	ALL	634934.7	4272290	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
3433	ALL	634931.8	4272284	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
3434	ALL	634917.2	4272306	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
3435	ALL	634904	4272329	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
3436	ALL	634871.5	4272349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
3437	ALL	634810	4272378	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
3438	ALL	634769.1	4272390	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
3439	ALL	634694.5	4272382	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
3440	ALL	634631.6	4272373	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
3441	ALL	634552.6	4272366	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
3442	ALL	634441.4	4272325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
3443	ALL	634296.6	4272265	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
3444	ALL	634129.9	4272188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06
3445	ALL	634042.1	4272147	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-06
3446	ALL	633982.4	4272112	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06
3447	ALL	633962.5	4272091	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-06
3448	ALL	633951.3	4272065	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-06
3449	ALL	633941.4	4272028	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06
3450	ALL	633933.9	4272002	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-06
3451	ALL	633921.5	4271976	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06
3452	ALL	633901.6	4271956	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-06
3453	ALL	633868	4271941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-06
3454	ALL	633827	4271932	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06
3455	ALL	633808.3	4271923	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06
3456	ALL	633788.4	4271908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-06
3457	ALL	633774.8	4271891	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-06
3458	ALL	633753.6	4271828	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-06
3459	ALL	633710.1	4271691	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06
3460	ALL	633693.3	4271700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-06
3461	ALL	633765.1	4271899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-06
3462	ALL	633786.5	4271929	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-06
3463	ALL	633803.3	4271938	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-06
3464	ALL	633831.6	4271943	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-06
3465	ALL	633860.6	4271947	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-06
3466	ALL	633881.9	4271953	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-06
3467	ALL	633908.7	4271973	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06
3468	ALL	633921.7	4271994	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-06
3469	ALL	633931.6	4272031	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-06
3470	ALL	633937.7	4272053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06
3471	ALL	633918.6	4272053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-06
3472	ALL	633911.7	4272097	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-06
3473	ALL	633956	4272101	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
3474	ALL	634007.9	4272137	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06
3475	ALL	634056.8	4272161	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-06
3476	ALL	634114.1	4272190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06
3477	ALL	634214.9	4272236	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-06

3478	ALL	634313.7	4272280	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
3479	ALL	634496.1	4272359	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
3480	ALL	634555.3	4272375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
3481	ALL	634638	4272385	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05
3482	ALL	634746.7	4272396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05
3483	ALL	634773.2	4272395	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-05
3484	ALL	634790.1	4272394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
3485	ALL	634810.9	4272389	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-05
3486	ALL	634828.4	4272381	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-05
3487	ALL	634845.9	4272371	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-05
3488	ALL	634857.6	4272363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
3489	ALL	634873.2	4272356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
3490	ALL	634888.1	4272350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05
3491	ALL	634923.2	4272339	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
3492	ALL	634929	4272338	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
3493	ALL	634948.5	4272324	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
3494	ALL	634975.1	4272301	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
3495	ALL	634991.3	4272270	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04
3496	ALL	635047.8	4272254	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
3497	ALL	635110.7	4272224	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-03
3498	ALL	635172.2	4272170	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-03
3499	ALL	635251.2	4272096	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03
3500	ALL	635343.3	4272006	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03
3501	ALL	635421.9	4271924	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03
3502	ALL	635515.5	4271825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03
3503	ALL	635571.1	4271790	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03
3504	ALL	635606.2	4271772	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-04
3505	ALL	635606.2	4271733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
3506	ALL	635629.6	4271717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-04
3507	ALL	635620.9	4271693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04
3508	ALL	635689.4	4271635	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
3509	ALL	635729.6	4271600	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
3510	ALL	635767.6	4271576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
3511	ALL	635798.4	4271561	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
3512	ALL	635851.6	4271538	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
3513	ALL	635882.7	4271524	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
3514	ALL	635911.8	4271512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
3515	ALL	635954.5	4271499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
3516	ALL	636030.9	4271478	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
3517	ALL	636077.5	4271468	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
3518	ALL	636174.5	4271456	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-05
3519	ALL	636228.7	4271448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
3520	ALL	636300.5	4271434	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05
3521	ALL	636374.6	4271422	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-05
3522	ALL	636470.9	4271418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-05
3523	ALL	636535	4271420	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
3524	ALL	636617.5	4271428	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05
3525	ALL	636772.2	4271443	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-05
3526	ALL	636825	4271449	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-05
3527	ALL	636866.2	4271452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
3528	ALL	636909.6	4271457	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05
3529	ALL	636940.2	4271459	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-05
3530	ALL	636961.4	4271458	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
3531	ALL	637012.1	4271446	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05

Appendix E

General Conformity Determination

Final General Conformity Determination

American River Watershed Common Features
2016 Project

March 19, 2021

Prepared by

U.S. Army Corps of Engineers, Sacramento District

Moore Noise, LLC

GEI Consultants, Inc.

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Final General Conformity Determination
American River Watershed Common Features 2016 Project

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Appendix D: Response to Comments on the Draft General Conformity Determination ARCF 2016

Acronyms and Abbreviations

ARCF	American River Common Features
CAA	Clean Air Act
CFR	Code of Federal Regulations
CO	Carbon monoxide
EPA	U.S. Environmental Protection Agency
GRR	General Reevaluation Report
NAAQS	National Ambient Air Quality Standards
NO_2	Nitrogen dioxide
NO_X	Nitrogen oxides
PM_{10}	Particulate matter with an aerodynamic diameter of 10 micrometers or less
$PM_{2.5}$	Particulate matter with an aerodynamic diameter of 2.5 micrometers or less
ppb	Parts per billion
ppm	Parts per million
RCEM	Road Construction Emissions Model
ROG	Reactive organic gases
SIP	State Implementation Plan
SMAQMD	Sacramento Metropolitan Air Quality Management District
SO_2	Sulfur dioxide
USACE	U.S. Army Corps of Engineers
VOC	Volatile organic compounds
YSAQMD	Yolo-Solano Air Quality Management District
$\mu g/m^3$	Micrograms per cubic meter

General Conformity Determination
American River Watershed Common Features 2016 Project

The General Conformity regulations at Title 40 Code of Federal Regulations (CFR) Subchapter C Part 93 ensure that the actions taken by federal agencies do not interfere with a state's plans to attain and maintain national standards for air quality. This General Conformity Determination documents how the American River Common Features (ARCF) 2016 Project will meet the requirements of the General Conformity regulations.

Project Purpose and Description

The purpose of the ARCF 2016 Project is to reduce the risk of flooding within the Greater Sacramento metropolitan area.

The Sacramento metropolitan area is one of the urban regions most at risk of flooding in the United States. Constructed in the mid-twentieth century, the Sacramento River Flood Control Project was designed to protect the city from floodwaters as high as the known flood of record, which at the time of construction was the flood of 1927. A new record flood occurred in 1986, followed by a slightly smaller flood in January 1997, each of which caused levee failures and localized flooding. The primary risks to levee performance are seepage, underseepage, stability, erosion, and overtopping.

High water flows in both the American and Sacramento Rivers place considerable stresses on the network of levees protecting the Sacramento area. Without prompt improvement of weakened or sub-standard levee reaches, the levee system will remain at heightened risk of failure during periods of high water in the two rivers. The consequences of a major levee failure could be catastrophic because the protected area is highly urbanized and flooding could reach 20 feet deep, causing severe property damage, possible loss of life and serious contamination of drinking water supplies for downstream users.

The ARCF 2016 Project will construct approximately $1.5 billion in improvements to the Sacramento metropolitan area flood protection system, as recommended by the *American River Watershed Common Features General Reevaluation Report (GRR)*. Recommendations in the GRR include construction of levee improvement measures to address seepage, instability, erosion, and overtopping risks identified for the Sacramento River, Arcade Creek, Natomas East Main Drainage Canal (NEMDC), and Magpie Creek, as well as erosion control measures for specific locations along the American River, and widening of the Sacramento Weir and Bypass to provide capacity for diversion of a higher volume of flood flows into the Yolo Bypass.

In 2018, under the Bipartisan Budget Act (Public Law 115-123), Congress appropriated full funding for the ARCF 2016 Project under the Long-Term Disaster Recovery Investment Program (LTDRIP). U.S. Army Corps of Engineers (USACE) implementation guidance for the LTDRIP (Civil Works Director's Policy Memorandum # DPM CW 2018-09) requires that the project be implemented on a much accelerated schedule to meet the obligations of the federal funding under this program. To meet the accelerated schedule, this project must be completed by January of 2024. If not completed on this timeline, exposure to significant flood risk will persist, including loss of life, loss of agricultural production, damage to homes and businesses, and damage to public facilities.

Regulatory Background

This document pertains only to the federal General Conformity regulations. Applicable state and municipal air quality regulations are discussed in the *American River Watershed Common Features General Reevaluation Report Final Environmental Impact Statement /Environmental Impact Report (December 2015)* and in subsequent project-level reviews.

National Ambient Air Quality Standards

The U.S. Environmental Protection Agency (EPA) develops and enforces federal regulations that govern air quality. The Federal Clean Air Act (CAA) requires EPA to set National Ambient Air Quality Standards (NAAQS) for pollutants considered harmful to public health and the environment. The EPA has identified six "criteria" air pollutants of nationwide concern: ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead, and particulate matter. Particulate matter is further subdivided into particulate with an aerodynamic diameter of 10 micrometers or less (PM_{10}) and particulates with an aerodynamic diameter of 2.5 micrometers or less ($PM_{2.5}$). Ozone is not directly emitted but is instead formed in heat and sunlight from the precursor pollutants of nitrogen oxides (NO_X) and volatile organic compounds (VOC). Although the definition varies slightly, Reactive Organic Gases (ROG) are frequently referred to interchangeably with VOC. SO_2, NO_X, and in some cases VOC and ammonia, are precursor pollutants for the formation of $PM_{2.5}$. Regulatory programs for the control of ozone focus on control of the precursor pollutants. Regulatory programs for the control of $PM_{2.5}$ focus on both direct emissions of $PM_{2.5}$ and precursor pollutants appropriate to the specific nonattainment area.

The CAA identifies two types of national ambient air quality standards. Primary standards provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. Secondary standards provide public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings.

EPA designates areas of the State as attainment, nonattainment, maintenance, or unclassified for the various pollutant standards. An "attainment" designation for an area signifies that pollutant concentrations do not exceed the established standard. In contrast to attainment, a "nonattainment" designation indicates that a pollutant concentration has exceeded, and continues to exceed, the established standard. Nonattainment may vary in severity. To identify the severity of the issue and the extent of planning and actions required to meet the standard, nonattainment areas are assigned classifications that are commensurate with the severity of their pollution. Areas that previously exceeded a standard, but have come into compliance, are referred to as maintenance areas. Upon redesignation to maintenance status, an area is required to operate under a maintenance plan which establishes emission reduction measures that will ensure continued compliance with the NAAQS. The maintenance planning period extends for 20 years (two 10-year periods) after the redesignation date. Once the 20-year maintenance planning period is over, the CAA General Conformity Rule no longer applies and the area is considered to be in attainment.

Table 1 shows the NAAQS standards for each of the criteria pollutants. Several NAAQS have been revoked and replaced with more stringent standards over the years. Areas that were in nonattainment of the revoked standards are still subject to requirements to demonstrate compliance, however General Conformity does not apply to revoked NAAQS. Revoked NAAQS are not shown in Table 1.

Under the provisions of the CAA, the EPA requires each state with regions that have not attained the NAAQS to prepare a State Implementation Plan (SIP) detailing how these standards are to be met in each local area. The SIP is a legal agreement between each state and the federal government to commit resources to improving air quality. It serves as the template for conducting regional- and project- level air quality analysis. The SIP is not a single document but a compilation of new and previously submitted attainment plans, maintenance plans, emissions reduction programs, district rules, state regulations, and federal controls. Nonattainment and maintenance areas have a unique geography for each pollutant based on the physical region of the nonattainment area, and the meteorology, sources, and mechanisms that contribute to violations of the NAAQS.

Table 1. National Ambient Air Quality Standards

Pollutant	Averaging Time	Primary Standards	Secondary Standards	Form
Carbon Monoxide (CO)	8-hour 1-hour	9 ppm 35 ppm	—	Not to be exceeded more than once per year
Lead (Pb)	Rolling 3-month average	0.15 µg/m^3	Same as Primary	Not to be exceeded
Nitrogen Dioxide (NO_2)	Annual	53 ppb	Same as Primary	Annual mean
	1-hour	100 ppb	—	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years
Particulate Matter (PM_{10})	24-hour	150 µg/m^3	Same as Primary	Not to be exceeded more than once per year on average over 3 years
Particulate Matter ($PM_{2.5}$)	Annual	12.0 µg/m^3	15.0 µg/m^3	Annual mean, averaged over 3 years
	24-hour	35 µg/m^3	Same as Primary	98th percentile, averaged over 3 years
Ozone (2015)	8-hour	70 ppb	Same as Primary	Annual fourth-highest daily maximum 8-hr concentration, averaged over 3 years
Ozone (2008)	8-hour	75 ppb	Same as Primary	Annual fourth-highest daily maximum 8-hr concentration, averaged over 3 years
Sulfur Dioxide (SO_2)	1-hour	75 ppb	—	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years
	3-hour	—	0.5 ppm	Not to be exceeded more than once per year

Source: EPA 2019. ppm = parts per million; ppb = parts per billion; µg/m^3= micrograms per cubic meter; "—" = no applicable standard.

Attainment Status

Construction of the ARCF 2016 Project currently includes elements in Sacramento and Yolo Counties, and although construction is not currently planned in Solano, Sutter and Placer Counties, minor elements could affect these counties and they are included for completeness. Project emissions will also occur in the San Francisco Bay Area as materials are shipped, by barge, from expected locations adjacent to San Francisco and San Pablo Bays.

Table 2 lists the nonattainment and maintenance areas in the five counties, and their classification. The nonattainment and maintenance areas shown in Table 2 are located within two separate air basins: the Sacramento Valley and the San Francisco Bay Area.

Table 2. Attainment Status for the ARCF 2016 Project Area

Area Name Counties of Interest			
Sacramento Metro* Sacramento & Yolo (partial El Dorado, Placer, Solano, & Sutter)	**8-hr Ozone (2008)** 8-hr Ozone (2015)	***Nonattainment*** Nonattainment (recommended)	***Severe-15*** Moderate
Sacramento Sacramento; (partial El Dorado, Placer, Solano, & Yolo)	8-hr CO (2011) **$PM_{2.5}$ (2006)**	Maintenance** ***Nonattainment†***	Moderate Moderate
Sacramento County	PM_{10} (1987)	Maintenance	Moderate
San Francisco Bay Area (partial Solano)	8-Hour Ozone (2008) 8-Hour Ozone (2015) $PM_{2.5}$ (2006)	*Nonattainment* *Nonattainment* *Nonattainment*	Marginal Marginal Moderate
San Francisco-Oakland-San Jose (partial Solano)	8-hr CO (2011)	Maintenance	Moderate
Lake Tahoe North Shore (partial Placer)	8-hr CO (2011)	Maintenance	Not Classified
Sutter Buttes (partial Sutter)	8-hr Ozone (2015)	Nonattainment	Marginal
Yuba City-Marysville (partial Sutter)	$PM_{2.5}$ (2006)	Maintenance	Moderate

Source: EPA 2019, EPA Greenbook, https://www3.epa.gov/airquality/greenbook/anayo_ca.html

*Sacramento Federal Ozone Nonattainment Area (SFONA)

**Sacramento completed its 20 years of maintenance of the CO standard on June 1, 2018.

† USEPA determined Sacramento $PM_{2.5}$ area attained the 2006 24-hr. (2006) NAAQS in May 2017, based on certified 2013-2015 monitoring data. Redesignation Request to be updated and submitted to USEPA.

The boundaries of the nonattainment and maintenance areas designated for implementation of rules and regulations to improve air quality are described in the individual SIPs for the pollutants in question, or are published in the Federal Register at Title 40 CFR, Subchapter C Part 81. The nonattainment and maintenance areas expected to be affected by ARCF 2016 Project emissions are:

- The Sacramento Federal Ozone Nonattainment Area (SFONA) which includes all of Sacramento and Yolo counties and portions of Placer, El Dorado, Solano, and Sutter counties.
- The Sacramento Federal $PM_{2.5}$ Nonattainment Area which is slightly smaller than the ozone nonattainment area and includes all of Sacramento County and portions of Yolo, Solano, Placer and El Dorado counties.
- The Sacramento PM_{10} Maintenance Area which includes all of Sacramento County.
- The San Francisco Bay Area Intrastate Air Quality Control Area (San Francisco AQCA, the 8-hour Ozone and $PM_{2.5}$ nonattainment area) which includes all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties and portions of Sonoma and Solano counties.

For the Sacramento Valley Air Basin, the ozone, PM_{10}, and $PM_{2.5}$ nonattainment and maintenance areas have different geographic footprints. For screening purposes, total project emissions for the entire SFONA, which has the largest geographic area, are analyzed and the smaller nonattainment or maintenance area emissions are only considered separately if needed.

General Conformity Components

The General Conformity process has four main components: an emissions analysis, an applicability determination, mitigation commitments, and an agency and public review. A discussion of each component of the process follows. The General Conformity Determination is the responsibility of the federal agency (USACE for the ARCF 2016 Project) and is subject to review by the air agencies for the local airsheds, the EPA, other agencies, and the public.

Emissions Analysis

An analysis of all direct and indirect emissions associated with the federal action must be completed and compared to *de minimis* thresholds to determine if General Conformity is applicable to the action. For the ARCF 2016 Project, emissions were estimated using the Sacramento Metropolitan Air Quality Management District's (SMAQMD's) *Road Construction Emissions Model* (RCEM), Version 8.1.0. The RCEM was developed by SMAQMD to analyze emissions from linear projects such as roadways, and for the ARCF 2016 Project. Emissions from barges were estimated using the SMAQMD *Harborcraft, Dredge and Barge Emissions Factor Calculator.* The emissions analysis is documented in a memorandum titled *American River Common Features 2016 Air Pollutant Emissions Methods and Results to Support a General Conformity Determination*, which is included in Appendix B to this document. Emission sources analyzed included a wide range of construction equipment and activities, on-road mobile sources (construction material delivery trucks and motor vehicles driven by contractor employees), as well as barge emissions resulting from the delivery of quarry rock and aggregate. The analysis memorandum evaluated two cases to address possible schedule slippage for project elements.

After the memorandum was prepared, USACE updated its anticipated project schedule. Although the component projects, the underlying modeling assumptions, and results did not change, the expected year of construction changed for many of the component projects. Erosion projects which were originally planned to be constructed in multiple years were consolidated into single construction seasons. As a result, the way that the component projects and model results were distributed among calendar years changed. Appendix C to this document contains several tables from the memorandum, updated to reflect USACE's best available schedule assumptions as of March 2020. Emission tables included in this General Conformity Determination document are consistent with these best available schedule assumptions.

The ARCF 2016 Project will be completed through numerous separate contracts over a minimum five-year period. Many elements of the Project are still in the design phase. Consequently, actual emissions will vary from the estimates set forth in this document. Conservative assumptions regarding construction methods and timing were used in the emissions analysis to determine the overall levels of control and mitigation that will be required. Table 3 shows the estimated total uncontrolled (no equipment controls applied; standard vehicle fleet assumptions) project emissions by year in the SFONA and the San Francisco AQCA. See Appendix C for project components and emission summation by year. Only nonattainment and maintenance pollutants are included in Table 3. Uncontrolled SO_2 emissions are estimated to be negligible in both the SFONA and the San Francisco AQCA and therefore are not shown in Table 3.

Table 3. Estimated Uncontrolled Emissions by Year and Control Area for the ARCF 2016 Project

Control Area	**Pollutant Emissions** (tons/yr.)			
SFONA	**ROG**	**NO_X**	**PM_{10}**	**$PM_{2.5}$**
2019	0.0	0.5	3.3	0.7
2020	3.4	**38.2**	8.3	2.9
2021	4.8	**52.6**	47.1	11.3
2022	7.8	**94.6**	97.2	22.8
2023	5.5	**65.1**	53.4	13.0
San Francisco AQCA	**ROG**	**NO_X**	**PM_{10}**	**$PM_{2.5}$**
2020	0.1	1.3	0.1	0.1
2021	0.5	8.0	0.4	0.3
2022	0.8	13.2	0.6	0.5
2023	1.0	16.8	0.8	0.7

Applicability

The General Conformity Rules established *de minimis* thresholds to screen projects for the potential to impose significant adverse air quality effects. Projects with annual total emissions from direct and indirect emissions less than the *de minimis* thresholds are not considered to be significant and do not require a General Conformity Determination. The *de minimis* thresholds vary based upon the severity of ambient pollution in an area. Table 4 summarizes the *de minimis* thresholds applicable for the ARCF 2016 Project area. Project emissions above these thresholds require a General Conformity Determination to demonstrate how emissions will be controlled and mitigated.

Table 4. General Conformity *De Minimis* Annual Thresholds for the ARCF 2016 Project Area

Control Area	Pollutant (NAAQS Standard)	Classification	*De Minimis* Threshold (tons per year)
SFONA	**Ozone (2008)**	**Severe – 15**	**25** (VOC and NO_X)
	PM_{10} (1987)	Maintenance	100
	$PM_{2.5}$ (2006)	Moderate	100 ($PM_{2.5}$, SO_2, and NO_X)
San Francisco AQCA	Ozone (2008)	Marginal	100
	$PM_{2.5}$ (2006)	Moderate	100 ($PM_{2.5}$, SO_2, and NO_X)

Note: VOC and ammonia are not considered precursor pollutants of concern for $PM_{2.5}$ formation in the Sacramento and San Francisco control areas.

Project emissions of criteria pollutants occurring within a nonattainment or maintenance area are compared to the applicable area thresholds for that pollutant, as displayed in Table 4 above. A comparison of the estimated uncontrolled ARCF 2016 Project emissions in Table 3 to the General Conformity thresholds in Table 4 shows that uncontrolled project pollutant emissions estimated within the San Francisco AQCA are a fraction of the *de minimis* thresholds for ROG, PM_{10}, and $PM_{2.5}$. And estimated project emissions of the fourth pollutant, NOx, in the San Francisco AQCA fall below the annual *de minimis* threshold. Within the SFONA, the estimated uncontrolled project emissions for ROG, PM_{10}, and $PM_{2.5}$ all fall below the *de minimis* thresholds. Estimated project emissions fall below *de minimis* level for NO_X as a precursor to secondary $PM_{2.5}$ formation.

Uncontrolled project NO_X emissions as a contributor to ozone formation within the SFONA are estimated to exceed the *de minimis* threshold, and therefore a General Conformity Determination is required for NO_X emissions within the SFONA.

Mitigation Commitments

Although General Conformity applies only to emissions over the thresholds, state and municipal air regulations require control of project pollutant emissions, and related reduction and mitigation commitments, as prescribed through the California Environmental Quality Act process. These commitments are discussed in the *American River Watershed Common Features General Reevaluation Report Final Environmental Impact Statement /Environmental Impact Report (December 2015)* and in supplemental documents addressing individual project elements.

Construction of the ARCF 2016 Project will require the use of many pieces of heavy construction equipment. The volume of required equipment can affect the ability of construction and equipment rental companies to provide a low-emitting vehicle fleet. USACE performed outreach to the construction industry to get feedback on the level of emissions control available on the overall construction fleet potentially available to complete the ARCF 2016 Project. Feedback from the construction industry supported a reasonably assumed ARCF 2016 construction equipment fleet with 90 percent of off-road equipment engines meeting EPA Tier 4 standards. Additionally, USACE has determined that further emission reductions can be achieved by requiring the use of equipment that meets a minimum Tier 1 standard (i.e., no Tier 0 or uncontrolled equipment would be allowed on site, without approval by the Corps. In order to gain approval, contractors must provide updated emissions estimates showing how the Tier 1 standard could be achieved through offsets or additional mitigation implementation).

USACE will first reduce NO_X emissions through specification of an emissions-controlled vehicle fleet, and secondly through obtaining NO_X offsets for any year in which the emissions with implementation of equipment controls exceed the *de minimis* threshold of 25 tons of NO_X emitted within the SFONA boundary. Table 5 lists the estimated NO_X emissions in the SFONA for the ARCF 2016 Project with equipment controls applied, assuming on-road truck emissions will be equivalent to emissions from model year 2010 or newer for the entire on-road truck fleet, and off-road equipment will achieve a fleetwide NO_X reduction equivalent to 90 percent of the emissions reduction if all equipment were equipped with Tier 4 engines. The 2015 ARCF GRR FEIS/EIR details emission control practices and mitigation measures in Section 3.11.6, Mitigation Measures.

Table 5. Estimated ARCF 2016 Controlled Emissions in the SFONA by Year and Air District

Year	**NO_x Emissions** (tons per year)		
	SFONA	***SMAQMD***	***YSAQMD***
2019	0.5	0.5	--
2020	5.1	5.1	--
2021	15.9	9.9	6.0
2022	**35.3**	30.8	4.5
2023	**30.3**	24.0	6.3

NOTE: Emissions calculations assume on-road equipment fleet achieves overall emissions of 2010 or newer model vehicles and 90% of the on-site equipment meets Tier 4 standards.

All direct and indirect emissions occurring within the SFONA must be considered in determining General Conformity applicability. The SFONA overlaps portions of multiple local air quality management districts. Table 5 and Figure 1 show the respective portions of estimated annual SFONA emissions generated in the Sacramento Metro AQMD and Yolo-Solano AQMD by ARCF 2016 Project construction. The Project emissions will primarily be generated from within the SMAQMD. The Sacramento Weir widening and associated levee improvement contracts occur within the Yolo-Solano Air Quality Management District (YSAQMD). No ARCF 2016 Project construction is planned in the higher elevation local air quality jurisdictions. That upper northeastern reach of the SFONA extends into parts of the Placer County Air Pollution Control District, Feather River AQMD, and El Dorado County AQMD.

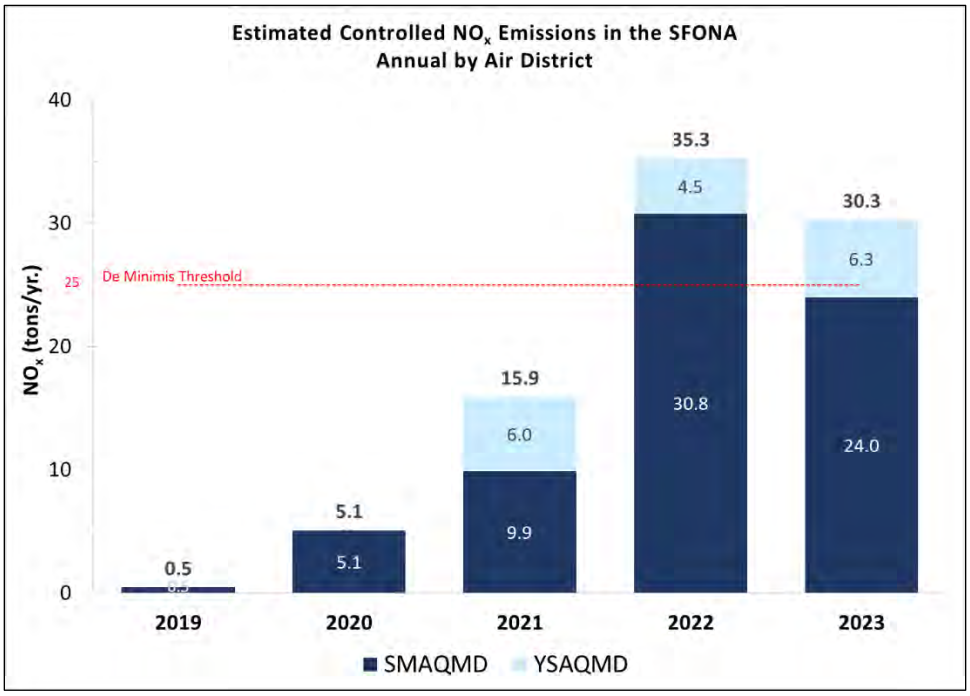

Figure 1. Estimated ARCF 2016 NO_x emissions in the SFONA Sacramento Metro and Yolo-Solano Air Quality Management Districts.

To mitigate the project's NO_X emissions within the SFONA, USACE will obtain NO_X emissions offsets from the local air quality agencies to fully offset total NO_X emissions – with construction fleet emissions controls applied – in 2022 and 2023. Emission offsets will not be required if emissions can be maintained below 25 tons per year of NO_X in the SFONA through equipment control measures.

Agency Reporting and Public Review

USACE must provide a notice of the Federal agency's Draft General Conformity Determination on the proposed action to the following parties at least 30 days before issuing a Final General Determination:

- The EPA Region 9 Office
- State and local air quality agencies
- Any federally-recognized Indian tribal government in the SFONA
- Where applicable, affected Federal land managers
- The agency designated under section 174 of the Act (the California Air Resources Board)
- The Metropolitan Planning Organization

Within 30 days after a Final General Conformity Determination is made, USACE must again notify the same parties.

USACE must make public its Draft General Conformity Determination by placing a notice by prominent advertisement in a daily newspaper of general circulation in the area affected by the ARCF 2016 Project, and by providing 30 days for written public comment prior to taking any formal action on the Draft Determination.

Following the public comment period on the Draft General Conformity Determination, the USACE must document responses to all comments received. The Final General Conformity Determination must be made public by placing a notice by prominent advertisement in a daily newspaper of general circulation in the area affected by the action within 30 days of the Final General Conformity Determination. Upon request by any person, comments and responses must be made available within 30 days of the Final General Conformity Determination. Both Draft and Final General Conformity Determinations for American River Watershed Common Features 2016 Project will be available on the USACE website for Sacramento Area Levees: sacleveeupgrades.com.

General Conformity Determination

The ARCF 2016 Project will be in conformity with the Clean Air Act and will not cause or contribute to a new violation, nor increase the frequency or severity of existing violations of the NAAQS. The following mitigation measures will be implemented to maintain conformity:

Measure 1: Actual project emissions of nonattainment and maintenance pollutants occurring within the SFONA will be tracked monthly using tools acceptable to the SMAQMD and YSAQMD. The tracking data will verify that all pollutants remain below the General Conformity *de minimis* thresholds, or are fully mitigated and offset. If actual tracked emissions exceed 25 tons per year NOx, yet the emissions were prospectively estimated at below the *de minimis* threshold, then USACE would obtain offsets to fully mitigate emissions accordingly.

Measure 2: In any calendar year where the project's equipment control measures are expected to be insufficient to maintain project NO_X emissions within the SFONA below the general conformity *de minimis* threshold of 25 tons per year, offsets will be obtained (through purchase or loan) to fully offset the project's total direct and indirect NO_X emissions for that year.

Measure 3 (equipment control measure): USACE will require the use of on-road trucks with 2010 or newer model year engines, or an equivalent emission reduction, in all construction contracts. Construction contracts will allow the use of older model trucks in limited circumstances with a contractor proposed program to reduce vehicle miles travelled and with pre-approved total project emissions estimates for the year.

Measure 4 (equipment control measure): USACE will require the use of Tier 4 emission control technology equivalent to a minimum 90 percent reduction, based on off-road equipment horsepower, relative to the reduction achievable if all equipment used Tier 4 control technology for NO_X emissions from off-road construction equipment. For the remaining 10%, all equipment must meet a minimum Tier 1 standard. No Tier 0 or uncontrolled equipment will be allowed on site, without approval by USACE. For compliance and approval, contractors must provide updated emissions estimates showing how the Tier 1 standard could be achieved through offsets or additional mitigation implementation.

Measure 5: Mitigation offsets will be obtained from the SMAQMD for NO_X emitted within the SFONA and Sacramento County. NO_X mitigation offsets will be obtained through the normal process described in SMAQMD Rule 205 Community Bank and Priority Reserve Bank. Specific sections of Rule 205 applicable to meeting the timing requirements of General Conformity Offsets are:

- Section 310 – Community Bank Account Approval Process,
- Section 314 – Reserving Essential Public Services Account Credits,
- Section 405 – Loan Initiation Date, and 500 – Monitoring and Records.

SMAQMD Emission Reduction Credit loan applications shall be submitted to the SMAQMD by June 14 of the year prior to emissions being offset, in order to ensure timely processing of the transaction and payment of all fees prior to January 1 of the following year.

Measure 6: Mitigation offsets will be obtained from the YSAQMD for NO_X emitted within the SFONA and the YSAQMD boundaries in accordance with the YSAQMD Rule 3.5 Emission Reduction Credits (ERC):

- Section 305 – Use of ERCs: Banking,
- Section 306 – Use of ERCs: Offsets
- Section 408 – Conversion of Air Emissions to ERCs.

USACE proposes to pay the YSAQMD a minimum deposit of 10% of the fees for each year's estimated emissions prior to January 1 of that year. Emission Reduction Credit loans will be paid as described in the mitigation NO_X offsets agreement maintained with the YSAQMD, and in accordance with the YSAQMD Rules including 3.6 Priority Reserve. Appendix A provides a *Draft YSAQMD - ARCF 2016 NO_X Offset Agreement* example. Calculations for actual emissions will be submitted annually to the YSAQMD for review and approval by February 1 following the construction season.

Measure 7: If enough NO_X mitigation offsets are not available from the SMAQMD or the YSAQMD, the balance of offsets will be obtained from a neighboring local air district, in accordance with General Conformity regulations 40 CFR 93.150-165.

References

Moore Noise, LLC. Memorandum - American River Common Features (ARCF) 2016 Air Pollutant Emissions Methods and Results to Support a General Conformity Determination. February 4, 2020.

Sacramento Metropolitan Air Quality Management District (SMAQMD). *Road Construction Emissions Model* (RCEM), Version 8.1.0. Updated May 9, 2016.

Sacramento Metropolitan Air Quality Management District (SMAQMD). *Harborcraft, Dredge and Barge Emissions Factor Calculator.* Created September 15, 2006.

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US Environmental Protection Agency. *NAAQS Table*. Accessed October 16, 2019. https://www.epa.gov/criteria-air-pollutants/naaqs-table

US Environmental Protection Agency. Greenbook Nonattainment Areas - *California Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants*. Accessed October 16, 2019. https://www3.epa.gov/airquality/greenbook/anayo_ca.html

APPENDIX A

DRAFT

YSAQMD – ARCF 2016 NO_X Offset Agreement

Memo (DRAFT)

To: Wesley Wong / USACE Sacramento District

From: Paul Hensleigh / Yolo-Solano Air Quality Management District

cc:

Date: March 22, 2021

Re: American River Common Features – Air Quality Offset Fees

Introduction

The air quality analysis performed for the Environmental Impact Report/Statement (EIR/EIS) for the American River Common Features (ARCF 2016) General Reevaluation Report (GRR) project identified that emissions of nitrogen oxides (NOx) would be generated by construction activities associated with the project. The ARCF 2016 project includes widening the Sacramento Weir and making improvements to the levee system. NOx emissions will occur within the jurisdictions of both the Sacramento Metropolitan Air Quality Management District (SMAQMD) and the Yolo-Solano Air Quality Management District (YSAQMD). Both the SMAQMD and the YSAQMD are included by the EPA in the Sacramento Federal Ozone Nonattainment Area (SFNA[1]). As the lead agency for the ARCF, the U.S. Army Corps of Engineers (USACE) proposes to establish an offset lease agreement with the YSAQMD to mitigate NOx emissions within the boundaries of the YSAQMD to comply with federal General Conformity regulations.[2]

Policy Context

The federal General Conformity Requirement as specified in section 176(c)(4) of the Clean Air Act, as amended, applies to areas that do not meet federal air quality standards. General Conformity requires that federal projects within such areas conform to the applicable air quality attainment plan. Therefore, the federal EPA establishes annual thresholds or *de minimis* emission rates in nonattainment areas. If expected emissions from a federal project exceed the applicable de minimis threshold, emissions must be mitigated to "net zero" – effectively a complete mitigation of all emissions of the regulated criteria pollutant. The SFNA is currently designated as nonattainment for the federal ozone standard. Since ozone is not a directly emitted pollutant, General Conformity applies to the ozone precursors of reactive organic gases (ROG) and NOx. The General Conformity threshold is 25 tons of ROG or NOx per calendar year in the SFNA.

General Conformity Determination

YSAQMD staff reviewed the USACE's Draft General Conformity Determination (released to the public on March 23, 2020). The determination estimated that NOx emissions associated with ARCF 2016 construction activities would exceed the de minimis general conformity threshold within the SFNA (25 tons per year) in the years 2022 and 2023. Of these total emissions, 4.5 and 6.3 tons would be generated within the YSAQMD in 2022 and 2023 respectively.

[1] Referred to elsewhere in the GCD report as "SFONA."
[2] 40 CFR §93.150-165

Requested Offsets and Associated Fees

In the ARCF 2016 project EIR/EIS, the USACE proposed mitigation measures to reduce overall NOx emissions from the project. The USACE requests NOx offsets to fully mitigate NOx emissions generated within the YSAQMD when annual project emissions exceed the general conformity threshold. The USACE proposes to provide payment of offset fees to the YSAQMD, which will be used by the YSAQMD to obtain emission reductions within its jurisdiction. Offset fees will be funded through an ERC (Emissions Reduction Credits) loan, subject to the YSAQMD Rules and CAA regulations, and are estimated on the following basis:

- The offset fee rate per ton of NOx will be equivalent to the cost-effectiveness limit used by the YSAQMD to implement its FARMER agricultural-equipment replacement program. This rate is currently $18,262 per ton of NOx.
- The estimated loan amount for 2022 NOx offsets is $18,262/ton x 4.5 tons = $82,179.
- The estimated loan amount for 2023 NOx offsets is $18,262/ton x 6.3 tons = $115,050.
- The USACE will provide an additional 10 percent administrative fee for implementation of the NOx offset program. Consequently, the total estimated amount to offset NOx emissions in the YSAQMD in 2022 is $82,179 x 1.1 = $90,396.90 and
  2023 is $115,050 x 1.1 = $126,555.
- The USACE proposes to pay a non-refundable deposit equal to 10% of the estimated amount for each year prior to the beginning of that year. Construction information collected during the course of the year will be used to determine the actual amount of emissions generated. These calculations will be submitted to the YSAQMD by February 1st 2023 and 2024 for review and approval. Actual emissions may be greater or less than the estimated emissions. Based on the collected construction information at the end of a year, any balance due will be paid to the YSAQMD by March 1st of 2023 and 2024.

Monitoring of Offset Fee Projects

The YSAQMD will provide the USACE with a list of the YSAQMD emission reduction program projects funded with ARCF offset fees, including a description of each YSAQMD project. If ARCF 2016 construction design developments or schedule changes lead to higher emissions than previously estimated, then the YSAQMD remains committed to assist the USACE in obtaining additional emission reduction credits for conformity with the Clean Air Acts. And if future construction design developments or schedule changes lead to substantially lower than previously estimated emissions, then the YSAQMD also intends to assist the USACE in applying emissions reduction credits throughout the ARCF 2016 for conformity with the Clean Air Acts. Therefore, the ARCF 2016 Project will not contribute to a new violation, nor increase the frequency or severity of existing violations of the NAAQS.

APPENDIX B

American River Common Features (ARCF) 2016
Air Pollutant Emissions Methods and Results to Support a General Conformity Determination

Memorandum from Moore Noise, LLC.
February 4, 2020

Moore Noise, LLC

Memo

To:	SAFCA and U.S. Army Corps
From:	Martha Moore / Moore Noise, LLC
c:	Drew Sutton / GEI Consultants
Date:	February 4, 2020
Re:	**American River Common Features (ARCF) 2016** **Air Pollutant Emissions Methods and Results to Support a General Conformity Determination**

Background

The American River Common Features (ARCF) 2016 Project will be in design, contracting and construction from 2019 through 2024. The U.S. Army Corp of Engineers (USACE), Sacramento Division is managing the ARCF 2016 Project. The ARCF 2016 Project is divided in four categories for purposes of design and contracting. The categories are: Erosion Protection, Sacramento Weir Widening, Stability and Seepage, and Mitigation. Multiple years of construction contracts are planned under each category.

Initial estimates of air pollutant emissions from construction of the ARCF Project exceeded the federal General Conformity Threshold of 25 tons per year for emissions of nitrogen oxides (NO_X) within the Sacramento Federal Nonattainment Area (SFNA) for ozone. NO_X contributes to the formation of ozone. Other pollutants of concern under the General Conformity regulations (40 Code of Federal Regulations [CFR] 98) for the Project area are particulates (PM) and volatile organic compounds (VOC). As a result of this exceedance, more detailed emission estimates were prepared in planning for compliance with the General Conformity regulations. This memorandum presents the methods used in the emissions estimates and the results of the estimates.

Methods

Information regarding design and expected construction methods were developed in coordination with the Project design teams using information developed through June 2019. Where design was not complete and information was preliminary, the assumptions developed to support the emission estimates were more conservative. In general, the goal was to develop emission estimates that are conservative (high), but reasonable, for use in planning for mitigation of project effects.

Once developed, information on material quantities and equipment for each of the four ARCF Project categories was input into the Road Construction Emissions Model (RCEM) Version 8.1.0. Version 8.1.0 is approved for use for federal compliance demonstrations. The Sacramento Metropolitan Air Quality Management District's (SMAQMD) *Harborcraft, Dredge and Barge Emission Factor Calculator* was used to calculate emission factors for use in estimating emissions from barge transport of construction materials.

RCEM Model Input Assumptions

Attachments 1 through 5 detail the modeling assumptions and summarize the input data for the RCEM for each of the ARCF Project categories. A list of the Attachment titles follows:

- Attachment 1 – Modeling Assumptions, Erosion Protection
- Attachment 2 – Modeling Assumptions, Sacramento Weir
- Attachment 3 – Modeling Assumptions, Seepage and Stability
- Attachment 4 – Modeling Assumptions, Mitigation Sites
- Attachment 5 – Roadway Construction Emissions Model Input Assumptions Summary for Each Project Contract

Results

Tables 1 through 6 summarize the results of the model runs and compare the results to the General Conformity Thresholds for the SFNA. Although all emissions shown in the summary tables will occur within the boundary of the SNFA and must be considered in total for comparison to the General Conformity thresholds, there are two air quality agencies with jurisdiction over the emissions. The Sacramento Weir category emissions will occur within the boundary of the Yolo Solano Air Quality Management District (YSAQMD). Emissions from all other categories will occur within the boundary of and under the jurisdiction of the SMAQMD.

The RCEM Input file for the unmitigated case for each contract and the RCEM Output file summary page for each model run are included in Attachment 6 – RCEM Input Files. The input files for the two other mitigation scenarios are identical to the unmitigated input file except for the selection within the RCEM under “Mitigation Options”. The table below shows the RCEM mitigation option for each scenario.

Modeling Scenario	RCEM Selections	
	On-Road Fleet	**Off-Road Equipment**
Unmitigated	No Mitigation	No Mitigation
On-Road Mitigated	2010 and Newer On-road Vehicles Fleet	No Mitigation
On-Road & All Tier 4 Mitigated	2010 and Newer On-road Vehicles Fleet	Tier 4 Equipment – All Tier 4 Equipment

Where unmitigated emissions are shown to be below the General Conformity Threshold, no further analysis was competed for that pollutant in this document. However, the mitigation commitments contained in Environmental Impact Statements and Reports for the Project and the contracts will be implemented and will reduce emissions for pollutants other than NO_X. For NO_X, the USACE is proposing to mitigate emissions first through requiring the use of a fleet of reduced emissions construction vehicles, and then obtaining NO_X emissions offsets through the SMAQMD for the Erosion Protection, Seepage and Stability, and Mitigation category emissions; and through the YSAQMD for the Sacramento Weir category emissions.

Tables 1, 2 and 3 show emissions with no vehicle fleet mitigation, for mitigation applied to only on-road vehicles, and for the fully mitigated case for both on-road and off-road vehicles. USACE is committing to aggressive control of construction vehicle emissions, including the following emissions controls for NO_X:

- 2010 and Newer On-Road Vehicle Fleet, with limited exceptions
- 90% of rated horsepower (HP) of the on-site construction fleet will be equipped with Tier 4 controls

- All on-site construction fleet will meet at least Tier 1 standards, with limited exceptions pre-approved by USACE.
- Limited exceptions would be allowed only with USACE approval and after contractors provide updated emission estimates showing compliance with total emissions or how emissions would be achieved through offsets or additional mitigation.

Emissions are shown with the 90 percent mitigation assumed for off-road vehicles and assuming that on-road vehicles can achieve emissions equivalent to 100 percent of the vehicle fleet being 2010 or newer. The mitigated vehicle fleet emissions are compared to the General Conformity Thresholds to determine the additional NO_X emissions mitigation that may be required in offset projects.

Two emission cases were considered to account for the possibility of schedule slippage to later years. Mitigation offsets for NO_X will be planned to cover the estimated worst case of the emissions scenarios in order to secure enough offsets to fully mitigate potential emissions. The worst case estimated emissions scenario is shown in Table 3. NO_X offsets will be needed in years 2021, 2022, and 2023 to fully mitigate the anticipated NO_X emissions. Because emissions offsets from the SMAQMD are allocated quarterly, Table 4 shows the anticipated allocation of emissions to calendar quarters. Tables 5 and 6 shows the allocation of the quarterly emissions to the SMAQMD and the YSAQMD.

As each contract is bid, emissions can be refined based on final design information to support the acquisition of and payment for the emission offsets needed, provided the timing to request offsets from the air agencies can be met.

Table 1
American River Common Features (ARCF) 2016
General Conformity Determination
Air Quality Emissions by Year and Project (Case 1)

2019

Project	*Tons/year (Umitigated)*			
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**
Reach D Contract 1 (SREL Seepage Berm)[1]	0.02	0.15	0.07	0.02
Reach D Contract 1 (Beach Stone Lake Mitigation Site)[1]	0.02	0.32	3.21	0.68
Total Emissions (Sum)	**0.0**	**0.5**	**3.3**	**0.7**

2020

90% **Specified % of HP mitigated with Tier 4 controls**

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 1	0.26	2.34	0.49	0.14	0.26	2.34	0.20	0.90	0.19	0.74
Sacramento River Erosion Contract 1	0.19	0.74	0.32	0.09	0.19	0.74	0.19	0.74	0.19	0.74
Sacramento River Erosion Contract 1 - Barge Emissions[2]	0.08	1.24	0.05	0.05	0.08	1.24	0.08	1.24	0.08	1.24
Sacramento River Seepage/ Stability Contract 1 - Berm and Wells	0.63	6.60	2.53	0.75	0.26	0.83	0.26	0.83	0.26	0.83
Sacramento River Seepage/ Stability Contract 1 - Cutoff Wall	2.82	31.60	5.77	2.18	1.30	4.27	1.30	4.27	1.30	4.27
Total Emissions (Sum)	**4.0**	**42.5**	**9.2**	**3.2**	**2.1**	**9.4**	**2.0**	**8.0**	**2.0**	**7.8**

2021

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 2	1.34	24.78	1.91	0.81	1.19	15.01	0.76	8.21	0.71	7.46
Sacramento River Erosion Contract 2	0.61	5.95	1.34	0.48	0.61	5.89	0.32	1.50	0.29	1.01
Sacramento River Erosion Contract 2 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.22	15.78	39.37	8.56	1.16	12.00	0.76	4.78	0.71	3.97
Sacramento Weir - Barge Emissions[2]	0.09	1.23	0.07	0.06	0.09	1.23	0.09	1.23	0.09	1.23
Sacramento River Seepage/ Stability Contract 2 - Berm and Wells	0.51	5.17	1.59	0.51	0.51	4.99	0.22	1.13	0.19	0.71
Sacramento River Seepage/ Stability Contract 2 - Cutoff Wall	2.39	26.13	5.18	1.89	2.36	24.19	1.30	5.90	1.19	3.87
Total Emissions (Sum)	**6.6**	**84.6**	**49.8**	**12.6**	**6.4**	**68.9**	**3.9**	**28.4**	**3.6**	**23.9**

Table 1
American River Common Features (ARCF) 2016
General Conformity Determination
Air Quality Emissions by Year and Project (Case 1)

2022

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 2	1.24	21.82	1.85	0.75	1.10	13.70	0.75	7.93	0.71	7.29
Sacramento River Erosion Contract 2	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 2 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento River Erosion Contract 3	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 3 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.76	16.98	53.59	11.67	1.75	16.14	1.11	4.47	1.04	3.17
Sacramento River Seepage/ Stability Contract 3 - Cutoff Wall	1.93	20.21	4.70	1.61	1.90	18.84	1.12	4.89	1.04	3.34
Magpie Creek	0.52	8.34	0.67	0.30	0.48	5.45	0.33	3.03	0.31	2.77
Total Emissions (Sum)	**7.4**	**89.0**	**64.0**	**15.8**	**7.2**	**75.7**	**4.8**	**34.4**	**4.5**	**29.8**

2023

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
Mitigation	0.22	1.90	33.11	6.96	0.22	1.89	0.13	0.52	0.13	0.37
Sacramento River Erosion Contract 3	0.52	4.71	1.28	0.43	0.52	4.71	0.31	1.37	0.29	1.00
Sacramento River Erosion Contract 3 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.24	10.75	44.52	9.61	1.24	10.74	0.83	2.87	0.79	1.99
Sacramento Weir - Barge Emissions[2]	0.27	3.41	0.19	0.17	0.27	3.41	0.27	3.41	0.27	3.41
Sacramento River Seepage/ Stability Contract 4 - Berm and Wells	0.43	4.09	2.41	0.65	0.43	4.08	0.22	1.02	0.19	0.68
Sacramento River Seepage/ Stability Contract 4 - Cutoff Wall	0.40	3.85	1.29	0.40	0.40	3.83	0.25	1.04	0.23	0.73
Total Emissions (Sum)	**3.5**	**34.3**	**83.1**	**18.5**	**3.5**	**34.3**	**2.4**	**15.8**	**2.3**	**13.8**
General Conformity Thresholds	**25**	**25**	**100**	**100**	**25**	**25**	**25**	**25**	**25**	**25**

Notes: [1] From USACE; [2] No Mitigation

These estimates are preliminary and conservative. Emission estimates will change as the design for these contracts progresses. As a result, the actual emissions may vary somewhat and emissions may shift between years. In all cases analyzed, NOx mitigation offsets will be required in 2021, 2022, and 2023 to fully offset NOx emissions.

Table 2
American River Common Features (ARCF) 2016
General Conformity Determination
Air Quality Emissions by Year and Project (Case 2)

2019

Project	*Tons/year (Umitigated)*			
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**
Reach D Contract 1 (SREL Seepage Berm)[1]	0.02	0.15	0.07	0.02
Reach D Contract 1 (Beach Stone Lake Mitigation Site)[1]	0.02	0.32	3.21	0.68
Total Emissions (Sum)	**0.0**	**0.5**	**3.3**	**0.7**

2020

90% **Specified % of HP mitigated with Tier 4 controls**

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
Sacramento River Seepage/ Stability Contract 1 - Berm and Wells	0.63	6.60	2.53	0.75	0.26	0.83	0.26	0.83	0.26	0.83
Sacramento River Seepage/ Stability Contract 1 - Cutoff Wall	2.82	31.60	5.77	2.18	1.30	4.27	1.30	4.27	1.30	4.27
Total Emissions (Sum)	**3.4**	**38.2**	**8.3**	**2.9**	**1.6**	**5.1**	**1.6**	**5.1**	**1.6**	**5.1**

2021

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 1	0.26	2.34	0.49	0.14	0.26	2.34	0.20	0.90	0.19	0.74
Sacramento River Erosion Contract 1	0.19	0.74	0.32	0.09	0.19	0.74	0.19	0.74	0.19	0.74
Sacramento River Erosion Contract 1 - Barge Emissions[2]	0.08	1.24	0.05	0.05	0.08	1.24	0.08	1.24	0.08	1.24
Sacramento Weir	1.23	16.32	39.39	8.56	1.16	12.15	0.77	5.05	0.73	4.26
Sacramento Weir - Barge Emissions[2]	0.09	1.23	0.07	0.06	0.09	1.23	0.09	1.23	0.09	1.23
Sacramento River Seepage/ Stability Contract 2 - Berm and Wells	0.51	5.17	1.59	0.51	0.51	4.99	0.22	1.13	0.19	0.71
Sacramento River Seepage/ Stability Contract 2 - Cutoff Wall	2.39	26.13	5.18	1.89	2.36	24.19	1.30	5.90	1.19	3.87
Total Emissions (Sum)	**4.8**	**53.2**	**47.1**	**11.3**	**4.7**	**46.9**	**2.9**	**16.2**	**2.7**	**12.8**

Table 2
American River Common Features (ARCF) 2016
General Conformity Determination
Air Quality Emissions by Year and Project (Case 2)

2022

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 2	1.24	21.82	1.85	0.75	1.10	13.70	0.75	7.93	0.71	7.29
Sacramento River Erosion Contract 2	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 2 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento River Erosion Contract 3	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 3 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.74	16.29	53.57	11.66	1.73	15.84	1.10	4.17	1.03	2.87
Sacramento River Seepage/ Stability Contract 3 - Cutoff Wall	1.93	20.21	4.70	1.61	1.90	18.84	1.12	4.89	1.04	3.34
Magpie Creek	0.52	8.34	0.67	0.30	0.48	5.45	0.33	3.03	0.31	2.77
Total Emissions (Sum)	**7.4**	**88.3**	**64.0**	**15.8**	**7.2**	**75.4**	**4.8**	**34.1**	**4.5**	**29.5**

2023

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
Mitigation	0.22	1.90	33.11	6.96	0.22	1.89	0.13	0.52	0.13	0.37
American River Erosion Contract 2	1.24	21.82	1.85	0.75	1.10	13.70	0.75	7.93	0.71	7.29
Sacramento River Erosion Contract 2	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 2 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento River Erosion Contract 3	0.52	4.71	1.28	0.43	0.52	4.71	0.31	1.37	0.29	1.00
Sacramento River Erosion Contract 3 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.24	10.75	44.52	9.61	1.24	10.74	0.83	2.87	0.79	1.99
Sacramento Weir - Barge Emissions[2]	0.27	3.41	0.19	0.17	0.27	3.41	0.27	3.41	0.27	3.41
Sacramento River Seepage/ Stability Contract 4 - Berm and Wells	0.43	4.09	2.41	0.65	0.43	4.08	0.22	1.02	0.19	0.68
Sacramento River Seepage/ Stability Contract 4 - Cutoff Wall	0.40	3.85	1.29	0.40	0.40	3.83	0.25	1.04	0.23	0.73
Total Emissions (Sum)	**5.7**	**67.0**	**86.6**	**19.9**	**5.6**	**58.8**	**3.9**	**30.8**	**3.7**	**27.7**
General Conformity Thresholds	**25**	**25**	**100**	**100**	**25**	**25**	**25**	**25**	**25**	**25**

Notes: [1] From USACE; [2] No Mitigation

These estimates are preliminary and conservative. Emission estimates will change as the design for these contracts progresses. As a result, the actual emissions may vary somewhat and emissions may shift between years. NOx mitigation offsets will be required in 2022, and 2023 to fully offset NOx emissions for Case 2.

Table 3

2/2/2020

American River Common Features (ARCF) 2016
General Conformity Determination
Air Quality Emissions Worst Case by Year

2019

Project	*Tons/year (Umitigated)*			
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**
Reach D Contract 1 (SREL Seepage Berm)[1]	0.02	0.15	0.07	0.02
Reach D Contract 1 (Beach Stone Lake Mitigation Site)[1]	0.02	0.32	3.21	0.68
Total Emissions (Sum)	**0.0**	**0.5**	**3.3**	**0.7**

2020

90% Specified % of HP mitigated with Tier 4 controls

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 1	0.26	2.34	0.49	0.14	0.26	2.34	0.20	0.90	0.19	0.74
Sacramento River Erosion Contract 1	0.19	0.74	0.32	0.09	0.19	0.74	0.19	0.74	0.19	0.74
Sacramento River Erosion Contract 1 - Barge Emissions[2]	0.08	1.24	0.05	0.05	0.08	1.24	0.08	1.24	0.08	1.24
Sacramento River Seepage/ Stability Contract 1 - Berm and Wells	0.63	6.60	2.53	0.75	0.26	0.83	0.26	0.83	0.26	0.83
Sacramento River Seepage/ Stability Contract 1 - Cutoff Wall	2.82	31.60	5.77	2.18	1.30	4.27	1.30	4.27	1.30	4.27
Total Emissions (Sum)	**4.0**	**42.5**	**9.2**	**3.2**	**2.1**	**9.4**	**2.0**	**8.0**	**2.0**	**7.8**

2021

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 2	1.34	24.78	1.91	0.81	1.19	15.01	0.76	8.21	0.71	7.46
Sacramento River Erosion Contract 2	0.61	5.95	1.34	0.48	0.61	5.89	0.32	1.50	0.29	1.01
Sacramento River Erosion Contract 2 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.22	15.78	39.37	8.56	1.16	12.00	0.76	4.78	0.71	3.97
Sacramento Weir - Barge Emissions[2]	0.09	1.23	0.07	0.06	0.09	1.23	0.09	1.23	0.09	1.23
Sacramento River Seepage/ Stability Contract 2 - Berm and Wells	0.51	5.17	1.59	0.51	0.51	4.99	0.22	1.13	0.19	0.71
Sacramento River Seepage/ Stability Contract 2 - Cutoff Wall	2.39	26.13	5.18	1.89	2.36	24.19	1.30	5.90	1.19	3.87
Total Emissions (Sum)	**6.6**	**84.6**	**49.8**	**12.6**	**6.4**	**68.9**	**3.9**	**28.4**	**3.6**	**23.9**

2022

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 2	1.24	21.82	1.85	0.75	1.10	13.70	0.75	7.93	0.71	7.29
Sacramento River Erosion Contract 2	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 2 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento River Erosion Contract 3	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 3 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.76	16.98	53.59	11.67	1.75	16.14	1.11	4.47	1.04	3.17
Sacramento River Seepage/ Stability Contract 3 - Cutoff Wall	1.93	20.21	4.70	1.61	1.90	18.84	1.12	4.89	1.04	3.34
Magpie Creek	0.52	8.34	0.67	0.30	0.48	5.45	0.33	3.03	0.31	2.77
Total Emissions (Sum)	**7.4**	**89.0**	**64.0**	**15.8**	**7.2**	**75.7**	**4.8**	**34.4**	**4.5**	**29.8**

2023

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
Mitigation	0.22	1.90	33.11	6.96	0.22	1.89	0.13	0.52	0.13	0.37
American River Erosion Contract 2	1.24	21.82	1.85	0.75	1.10	13.70	0.75	7.93	0.71	7.29
Sacramento River Erosion Contract 2	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 2 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento River Erosion Contract 3	0.52	4.71	1.28	0.43	0.52	4.71	0.31	1.37	0.29	1.00
Sacramento River Erosion Contract 3 - Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.24	10.75	44.52	9.61	1.24	10.74	0.83	2.87	0.79	1.99
Sacramento Weir - Barge Emissions[2]	0.27	3.41	0.19	0.17	0.27	3.41	0.27	3.41	0.27	3.41
Sacramento River Seepage/ Stability Contract 4 - Berm and Wells	0.43	4.09	2.41	0.65	0.43	4.08	0.22	1.02	0.19	0.68
Sacramento River Seepage/ Stability Contract 4 - Cutoff Wall	0.40	3.85	1.29	0.40	0.40	3.83	0.25	1.04	0.23	0.73
Total Emissions (Sum)	**5.7**	**67.0**	**86.6**	**19.9**	**5.6**	**58.8**	**3.9**	**30.8**	**3.7**	**27.7**
General Conformity Thresholds	**25**	**25**	**100**	**100**	**25**	**25**	**25**	**25**	**25**	**25**

Notes: [1] From USACE; [2] No Mitigation

These estimates are preliminary and conservative. Emission estimates will change as the design for these contracts progresses. As a result, the actual emissions may vary somewhat and emissions may shift between years. In all cases analyzed, NOx mitigation offsets will be required in 2021, 2022, and 2023 to fully offset NOx emissions.

Table 4
American River Common Features (ARCF) 2016
General Conformity Determination
Allocation of Annual NOx Emissions to Quarters
Includes Only Years Exceeding General Conformity Threholds After Use of Equipment Mitigation

2021

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
American River Erosion Contract 2	8.21			33%	67%	0.0	0.0	2.7	5.5
Sacramento River Erosion Contract 2	1.50			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento Weir	4.78	13%	32%	42%	13%	0.6	1.5	2.0	0.6
Sacramento Weir - Barge Emissions[2]	1.23	13%	32%	42%	13%	0.2	0.4	0.5	0.2
Sacramento River Seepage/ Stability Contract 2 - Berm and Wells	1.13		25%	38%	38%	0.0	0.3	0.4	0.4
Sacramento River Seepage/ Stability Contract 2 - Cutoff Wall	5.90		43%	43%	14%	0.0	2.5	2.5	0.8
Total Emissions (Sum)	**28.4**								

2022

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
American River Erosion Contract 2	7.93			33%	67%	0.0	0.0	2.6	5.3
Sacramento River Erosion Contract 2	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Erosion Contract 3	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 3 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento Weir	4.47	25%	25%	25%	25%	1.1	1.1	1.1	1.1
Sacramento River Seepage/ Stability Contract 3 - Cutoff Wall	4.89		43%	43%	14%	0.0	2.1	2.1	0.7
Magpie Creek	3.03		25%	38%	38%	0.0	0.8	1.1	1.1
Total Emissions (Sum)	**34.4**								

2023

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Mitigation	0.52	25%	25%	25%	25%	0.1	0.1	0.1	0.1
American River Erosion Contract 2	7.93			33%	67%	0.0	0.0	2.6	5.3
Sacramento River Erosion Contract 2	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Erosion Contract 3	1.37			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 3 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento Weir	2.87	13%	32%	42%	13%	0.4	0.9	1.2	0.4
Sacramento Weir - Barge Emissions[2]	3.41	13%	32%	42%	13%	0.4	1.1	1.4	0.4
Sacramento River Seepage/ Stability Contract 4 - Berm and Wells	1.02		43%	43%	14%	0.0	0.4	0.4	0.1
Sacramento River Seepage/ Stability Contract 4 - Cutoff Wall	1.04		25%	38%	38%	0.0	0.3	0.4	0.4
Total Emissions (Sum)	**30.8**								

These estimates are preliminary and conservative. Emission estimates will change as the design for these contracts progresses. As a result, the actual emissions may vary somewhat and emissions may shift between years. In all cases analyzed, NOx mitigation offsets will be required in 2021, 2022, and 2023 to fully offset NOx emissions.

Table 5
American River Common Features (ARCF) 2016
General Conformity Determination
Allocation of Annual NOx Emissions to Quarters
Emissions Only within Sacramento Metro Air Quality Management District (SMAQMD)
Includes Only Years Exceeding General Conformity Threholds After Use of Equipment Mitigation

2021

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
American River Erosion Contract 2	8.21			33%	67%	0.0	0.0	2.7	5.5
Sacramento River Erosion Contract 2	1.50			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Seepage/ Stability Contract 2 - Berm and Wells	1.13		25%	38%	38%	0.0	0.3	0.4	0.4
Sacramento River Seepage/ Stability Contract 2 - Cutoff Wall	5.90		43%	43%	14%	0.0	2.5	2.5	0.8
Total Emissions (Sum)	**22.4**					0.0	2.8	9.3	10.3

2022

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
American River Erosion Contract 2	7.93			33%	67%	0.0	0.0	2.6	5.3
Sacramento River Erosion Contract 2	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Erosion Contract 3	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 3 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Seepage/ Stability Contract 3 - Cutoff Wall	4.89		43%	43%	14%	0.0	2.1	2.1	0.7
Magpie Creek	3.03		25%	38%	38%	0.0	0.8	1.1	1.1
Total Emissions (Sum)	**29.9**					0.0	2.9	12.9	14.1

2023

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Mitigation	0.52	25%	25%	25%	25%	0.1	0.1	0.1	0.1
American River Erosion Contract 2	7.93			33%	67%	0.0	0.0	2.6	5.3
Sacramento River Erosion Contract 2	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Erosion Contract 3	1.37			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 3 - Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Seepage/ Stability Contract 4 - Berm and Wells	1.02		43%	43%	14%	0.0	0.4	0.4	0.1
Sacramento River Seepage/ Stability Contract 4 - Cutoff Wall	1.04		25%	38%	38%	0.0	0.3	0.4	0.4
Total Emissions (Sum)	**24.5**					0.1	0.8	10.6	13.0

These estimates are preliminary and conservative. Emission estimates will change as the design for these contracts progresses. As a result, the actual emissions may vary somewhat and emissions may shift between years. In all cases analyzed, NOx mitigation offsets will be required in 2021, 2022, and 2023 to fully offset NOx emissions.

Table 6
American River Common Features (ARCF) 2016
General Conformity Determination
Allocation of Annual NOx Emissions to Quarters
Emissions Only within Yolo Solano Air Quality Management District (YSAQMD)
Includes Only Years Exceeding General Conformity Threholds After Use of Equipment Mitigation

2021

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Sacramento Weir	4.78	13%	32%	42%	13%	0.6	1.5	2.0	0.6
Sacramento Weir - Barge Emissions[2]	1.23	13%	32%	42%	13%	0.2	0.4	0.5	0.2
Total Emissions (Sum)	**6.0**								

2022

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Sacramento Weir	4.47	25%	25%	25%	25%	1.1	1.1	1.1	1.1
Total Emissions (Sum)	**4.5**								

2023

Project	*Tons/year (On-Road & 75% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Sacramento Weir	2.87	13%	32%	42%	13%	0.4	0.9	1.2	0.4
Sacramento Weir - Barge Emissions[2]	3.41	13%	32%	42%	13%	0.4	1.1	1.4	0.4
Total Emissions (Sum)	**6.3**								

These estimates are preliminary and conservative. Emission estimates will change as the design for these contracts progresses. As a result, the actual emissions may vary somewhat and emissions may shift between years. In all cases analyzed, NOx mitigation offsets will be required in 2021, 2022, and 2023 to fully offset NOx emissions.

Attachment 1

Modeling Assumptions

Erosion Protection

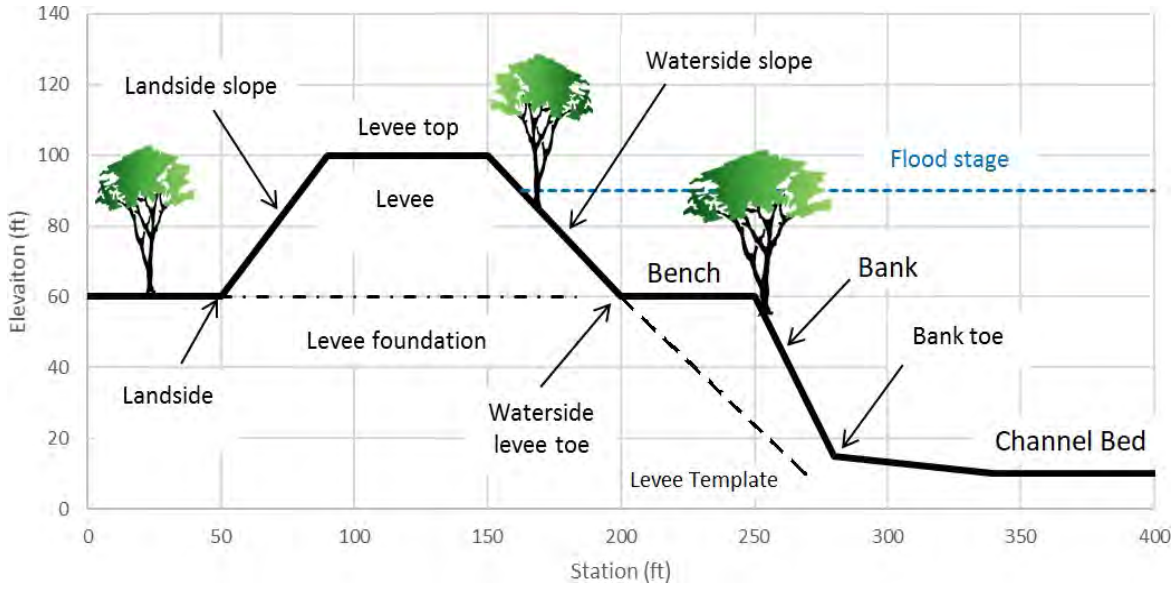
Supporting Calculations for Material Volumes, Equipment, and Quarterly Allocation of Emissions – Erosion Protection

General Information

The erosion protection contracts will construct erosion protection repairs on the American and Sacramento Rivers. The following table shows the currently anticipated and conservative schedule assumptions for construction of Erosion Protection contracts. Two cases are evaluated for timing. Case 1 is shown as X. Case two is shown as (X).

Year of Construction	2020	2021	2022	2023
American River				
Contract 1 (Subreach 2)	X	(X)		
Contract 2 (Subreaches 1, 3, 4)		X	X (X)	(X)
Contract 3 (for now assume not needed)				
Contract 4 (for now assume not needed)				
Sacramento River				
Contract 1 (55.2L)	X	(X)		
Contract 2		X	X (X)	(X)
Contract 3			X	X
Contract 4 (for now assume not needed)				

The following graphic shows common design elements for the Erosion Protection repair sites.



General Construction Methods for Erosion Protection (input from Joe Reynolds/USACE estimator) – rock is placed bottom to top. Above the water line – rock is placed with interstitial soil at approximately 70% rock/30% soil mix. On benches soil is placed on top of rock/soil layer for planting. Equipment can generally place 300 ton/hour, with ½ acre disturbed per day per site (Joe Reynolds, 4/11 email). For all projects we should assume end dump trucks at 15 cubic yards/truck trip.

For basic equipment assume tracked excavators and dozers (D6). An equipment set up for each site will consist of clam shell on barge to unload (or crane/loader for trucked material), dozer to push soil around, excavator to mix rock/soil, water truck. Multiple construction sites may operate simultaneously. Generally, grubbing is not performed. Vegetation is cut off at ground level for removal. Based on low to no grubbing, the total volume of exported material for the erosion contracts was adjusted down to 1,000 cubic yards per 15 acres for contracts without a cut bank. Cement will come from in-town Sacramento. Lime will come from Stockton.

American River Erosion

Project Definition: These contracts will provide erosion protection on the American River from the confluence with the Sacramento River upstream to the end of the federal levee system (approximately 11 miles) – this is broken into four subreaches for the project:

- Subreach 1 – Confluence to Paradise Bend
- Subreach 2 – Paradise Bend to Howe Avenue Bridge
- Subreach 3 – Howe Ave Bridge to Watt Ave Bridge
- Subreach 4 – Upstream of Watt Ave Bridge to end of the federal levee system (~RM 13, Goethe or Riverbend Park)

The American River in-water construction window is August 1 – October 31 (possibly Nov 30). Site preparation could occur prior to 8/1. Tree trimming will occur December to February to avoid nesting birds. Rip rap will be delivered to American River sites by truck. Rock import to construction sites will occur in June prior to the work window.

For the air quality emissions analysis, Subreach 2 (Contract 1) is used as the basis for estimating quantities of materials to be used for all American River Erosion contracts. Subreach 2 extends from about River Mile 5.1 near Paradise Bend upstream to RM 7.8 near the Howe Avenue bridge. Information on the current design plan for Subreach 2 was take from the *Lower American River Subreach 2 Summary of Bank Protection Conceptual Design Process (10% Basis of Design Report), Draft Report*, November 30, 2018.

Only material volumes for Subreach 2-1 are used to estimate material volumes for future years (Contract 2) based on the linear feet of erosion protection. Data for Subreach 2-3 includes a cut-bank design which is not assumed for other subreaches. The repair sites along Subreach 2 are:

Site 2-1: Repair site 2-1 includes 0.8 miles of the left bank between RM 5.8 and 6.6
Site 2-2: Repair site on the right bank starting near Howe Avenue and extending downstream about 1,000 feet (0.2 miles).
Site 2-3: Repair site located on the right bank that extends from about RM 7.2 downstream to RM 5.8. (1.4 miles)

The Contract 1 total Subreach length is approximately 2.4 miles (12,700 feet). Assuming a 100-foot wide construction corridor, this would be 29 acres. The area of clearing and grubbing (actual work area) is smaller and shown in the following tables.

Repair Site 2-1, 2-2, and 2-3 Quantities

Site	Material	Quantity	Unit
2-1	Rock Riprap	126,500	tons
2-1	Topsoil (Planting Benches	25,500	tons
2-1	Planting Area	2.5	acres
2-1	IWM	200	Trees
2-2	Rock Riprap	10,500	tons
2-2	Topsoil (Planting Benches	5,500	tons
2-2	Planting Area	0.4	acres
2-2	IWM	55	Trees
2-3	Cobble	36,500	Tons
2-3	Excavation and Off haul	135,000	cubic yards
2-3	Planting Area	12	acres

*Site 2-3 will have a cut-bank design

Data from Tables 4-3, 4-6, and 4-9 of *Attachment 6 to the Lower American River Subreach 2 Summary of Bank Protection Conceptual Design Process (10% Basis of Design Report)*, Draft Report, November 30, 2018.

Additional Information Repair Site 2-1, 2-2, 2-3 Quantities

Site	Material	Quantity	Unit
2-1	Clearing and Grubbing	2.4	Acres
2-2	Clearing and Grubbing	--	Acres
2-3	Clearing and Grubbing	14.3	Acres

Data from Tables 5-1, 5-2, and 5-3 of *Attachment 6 to the Lower American River Subreach 2 Summary of Bank Protection Conceptual Design Process (10% Basis of Design Report)*, Draft Report, November 30, 2018.

Total Material Volume Estimates for Subreach 2 (Contract 1)

Type	Material	Quantity	Units	Miles Traveled
Export	Clearing and Grubbing	16.7 (1,100)	Acres (cubic yards)	14
Import	Rip Rap	137,000 (83,000)	Tons (cubic yards)	50
Import	Topsoil Planting Bench	31,000 (23,000)	Tons (cubic yards)	5
Import	Cobble	36,500 (20,300)	Tons (cubic yards)	50
Export	Excavation and Off-haul	135,000	cubic yards	14
Import	IWM	255	Trees	

Note: Estimated haul distances per USACE staff (Anne Baker, email 2/22/2019). Assume: 1.65 ton/cubic yard for rip rap, 1.35 ton/cubic yard for topsoil, 1.8 ton/cubic yard for aggregate/cobble.

Estimated days to place rip rap at expected placement rate of 300 tons/hour. 137,000 tons/3,000 tons per 10-hour day = 46 days. Only one set of placement equipment required to complete placement for Contract 1 during the work window of August 1 – October 31. Expected acreage disturbed per day is ½ acre.

Total Estimates for Contract 2 (Subreach 1, 3, and 4, assumes no cut-bank construction)

Type	Material	Basis Quantity Subreach 2-1 (0.8 miles)	Estimated Subreach 1 and 4 (5 miles each)	Estimated Subreach 3 (2.2 miles)	Units	Miles Traveled
Export	Clearing and Grubbing	2.4	15 (1,000)	6.6 (440)	Acres (cubic yards)	14
Import	Rip Rap	126,500	790,625	347,875	Tons	50
Import	Topsoil Planting Bench	25,500	159,375	70,125	Tons	5
Import	IWM	200	1,250	550	Trees	

Note: Subreach 1: RM 0 to 5 = 5 miles; Subreach 2: RM 5 to RM 7.8 = 2.8 miles; Subreach 3 - RM 7.8 to RM 9 = 2.2 miles; Subreach 4: RM 9 to RM 14 = 5 miles

Contract 2 Summary of Material Quantities

Subreach	Acres Disturbed	Tons (CY) Rip Rap	Tons (CY) Topsoil
1	15	790,625 (479,200)	159,375 (118,100)
3	6.6	347,875 (210,800)	70,125 (51,950)
4	15	790,625 (479,200)	159,375 (118,100)
Total	**36.6**	**1,929,125 (1,169,200)**	**388,875 (288,150)**
Per Season	**18 (1,200 cubic yards)**	**964,563 (584,600)**	**194,438 (117,800)**

Assume: 1.65 ton/cubic yard for rip rap, 1.35 ton/cubic yard for topsoil. CY = cubic yard.

Subreaches 1, 3, and 4 are planned for completion in 2 seasons. Assume an even split between seasons – 1,929,125 tons rip rap/ 2 seasons = 964,562 tons/season. To estimate days to place rip rap: 964,562 tons/ 3,000 tons per 10-hour day = 322 days to place. Assume 22 days/month for 3 months = 66 days per season available. This would require **5 sets** of placement equipment for both years to complete placement during the work window of August 1 – October 31. Expected acreage disturbed per day is ½ acre per worksite = 2 ½ acres/day for Contract 2 (Subreaches 1, 3, and 4). The total estimated length of the Contract 2 Subreaches is 12.2 miles (64,400 feet), or 32,200 feet per season. Assuming a 100-foot wide construction corridor, this would be 74 acres. The area of clearing and grubbing (work area) is smaller and shown in the table ***Contract 2 Summary of Material Quantities*** above.

Construction equipment for American River Erosion Contract 1 was reviewed with the project team on 6/27/2019. It was agreed that the following equipment was a conservative (an extra set of basic equipment during grading/excavation) estimate of needed equipment:

American River Contract 1 Assumed Equipment

Equipment	Grubbing/Clearing Phase (Number)	Grading/Excavation Phase (number)
Cranes (basic)		2
Excavators (basic)	6	2
Generators	1	1
Graders		2
Off-Highway Trucks		2
Other Construction Equipment		1
Other General Industrial Equipment		2
Material Handling Equipment		1
Rubber Tired Dozers (basic)		2
Signal Boards	6	6
Skid Steer Loaders		3
Sweepers/Scrubbers (basic)	1	1
Tractors/Loaders/Backhoes		2
Trenchers		2

To estimate equipment needed for the American River Contract 2, grubbing and clearing was assumed to have the same equipment each year as Contract 1 based on the estimated acreage cleared (Contract 1: 16.7 acres, Contract 2: 36.6 acres in 2 years or 18.3 acres per year). For the Grading and Excavation Phase, basic equipment was assumed at 5 sets plus an extra set, other equipment was adjusted up slightly. Equipment assumed for each year of Contract 2 is shown below.

American River Contract 2 Assumed Equipment

Equipment	Grubbing/Clearing Phase (Number)	Grading/Excavation Phase (number)
Cranes (basic)		6
Excavators (basic)	6	6
Generators	1	3
Graders		4
Off-Highway Trucks		6
Other Construction Equipment		1
Other General Industrial Equipment		2
Material Handling Equipment		1
Rubber Tired Dozers (basic)		6
Rubber Tired Loaders		4
Signal Boards	6	6
Skid Steer Loaders		3
Sweepers/Scrubbers (basic)	1	1
Tractors/Loaders/Backhoes		3
Trenchers		2

The estimated quarterly distribution of emissions for the American River Contracts is shown below.

Year	Q1	Q2	Q3	Q4
All Years		On-Road	1/3	2/3

Sacramento River Erosion (55.2 L)

Project Definition: These contracts will provide erosion protection on the Sacramento River from the American River confluence downstream to Freeport (approximately 10 miles). On the Sacramento River, work will only occur on the left bank (looking downriver). Subreach 55.2L (Contract 1) will be used as the basis of estimates for the Sacramento River contracts.

The Sacramento River in-water work window is July 1 to October 31. Site preparation could occur prior to July 1. The tree trimming window is December to February. Rip rap (quarry stone and soil-filled quarry stone) will be delivered to Sacramento River sites by barge. The expected shipping approach will use 4-ganged barges from the Bay Area to Rio Vista, anchor at Rio Vista and use smaller tugboats to deliver single barges to construction sites for offloading. Information on the expected horsepower of tugboat engines was provided by staff at Dutra Materials in San Rafael, California. A push boat used to move materials from the quarry in San Rafael to Rio Vista on the Sacramento River typically has two engines at 800 horsepower each (1,600 horsepower total). Typical tugs for movement in the Sacramento River have a single engine at approximately 700 horsepower (Dennis Ferguson, personal communication).

For purposes of the air quality emissions analysis Subreach 55.2L is used as the basis of the material volume estimates for all Sacramento River reaches on a per foot basis. From the *Basis of Design Office Report Sacramento River Bank Protection Project*, DRAFT, Ayres Associates, June 2008, the original length of Subreach 55.2L was 690 feet. At 30 percent design, the length of Subreach 55.2L was increased to 1,150 feet (an increase by a factor of 1.68). The table below shows the original material quantities estimated for Subreach 55.2L, and the increased quantities expected for the increase in the length of the Subreach.

Estimate of Material Quantities for Sacramento River Erosion Contract 1

Phase	Estimated Quantity (original 690 ft basis)	Estimated Quantity (1,150 ft basis)	Unit
Clearing	0.81	1.4 (93)	Acres (cubic yards)
Embankment Material, 0.5' Soil Cover	660	1,100	cubic yards
Soil-Filled Quarry Stone	3,691 (6,274)	6,200 (10,500)	cubic yards (tons)
Quarry Stone	10,054 (22,581)	16,800 (37,700)	cubic yards (tons)
Erosion Control Seeding	0.71	1.2	Acres
In-Stream Wood Material	65	109	Each
Fascines	586	980	Each

Data from *Basis of Design Office Report Sacramento River Bank Protection Project*, Appendix G – Quantities, DRAFT, Ayres Associates, June 2008. Embankment soil cover from Figure 6.1 of the Design Office Report.

Estimated days to place rip rap at the expected placement rate of 300 tons/hour - 48,200 tons (10,500 + 37,700)/ 3,000 tons per 10-hour day = 16 days. Using 22 days/month of construction one set of

placement equipment would be required to complete placement during the work window of July 1 – October 31. Expected acreage disturbed per day is ½ acre for Contract 1.

Estimate of Material Quantities for Sacramento River Erosion Contracts 2 and 3

The overall estimated length of the Sacramento River Erosion Control Contracts is 29,600 feet. Contracts 2 and 3 are assumed to evenly divide the length remaining after Contract 1 is completed. Contract 2 and 3 are further estimated to required two years each of approximately equal material handling and length for construction duration. Material quantities for Contracts 2 and 3 are calculated on an annual basis by increasing the Subreach 55.2L volumes as follows – total length of 29,600 feet minus Contract 1 length of 1,150 feet = 28,450 feet remaining. This is allocated to Contract 2 and 3 at half of the total length or 14,225 feet for each Contract, and further allocated to each year at half of the individual contract length (7,113 feet). Material quantity estimates are based on the original Subreach 55.2L design at 690 feet, and material quantities are increased by a factor of 10.3 (7,113 feet/690 feet). The estimated material quantities for each year of Contract 2 and 3 are shown in the table below.

Estimated Material Quantities for Contracts 2 and 3 per Contract and Year

Phase	Estimated Quantity (690 ft basis)	Estimated Quantity per Contract per Year (7,113 ft basis)	Unit
Clearing	0.81	8.3 (550)	Acres (cubic yards)
Embankment Material, 0.5' Soil Cover	660	6,803	cubic yards
Soil-Filled Quarry Stone	3,691 (6,274)	38,047 (64,672)	cubic yards (tons)
Quarry Stone	10,054 (22,581)	103,636 (232,764)	cubic yards (tons)
Erosion Control Seeding	0.71	7.3	Acres
In-Stream Wood Material	65	670	Each
Fascines	586	6,040	Each

Estimated days to place rip rap at the expected placement rate of 300 tons/hour - 297,436 tons (64,672+232,764)/ 3,000 tons per 10-hour day = 99 days. Using 22 days/month of construction (88 days per season) two sets of placement equipment would, conservatively, be required to complete placement during the work window of July 1 – October 31. However, the project team anticipates that up to 4 work sites may be active simultaneously.

Expected acreage disturbed per day is ½ acre per worksite or 2 acres/day for Contracts 2 and 3 based on 4 active sites.

Construction equipment for the Sacramento River Erosion Contract 1 was estimated based on the American River Contract 1. The estimate of needed equipment is:

Sacramento River Contract 1 Assumed Equipment

Equipment	Grubbing/Clearing Phase (Number)	Grading/Excavation Phase (number)
Cranes (basic)		2
Excavators (basic)	6	2
Generators	1	1
Graders		2
Off-Highway Trucks		2
Other Construction Equipment		1
Other General Industrial Equipment		2
Material Handling Equipment		1
Rubber Tired Dozers (basic)		2
Signal Boards	6	6
Skid Steer Loaders		3
Sweepers/Scrubbers (basic)	1	1
Tractors/Loaders/Backhoes		2
Trenchers		2

Sacramento River Erosion Contract 2 is assumed to use the same clearing/grubbing equipment used for American River Contract 1. Equipment for grading and excavation is estimated to be the same as American River Contract 1, but with enough sets of basic equipment to operate 4 sites simultaneously. Expected equipment for Sacramento River Erosion Contracts 2 and 3 is shown below:

Sacramento River Contracts 2 and 3 Assumed Equipment

Equipment	Grubbing/Clearing Phase (Number)	Grading/Excavation Phase (number)
Cranes (basic)		4
Excavators (basic)	6	4
Generators	1	1
Graders		2
Off-Highway Trucks		4
Other Construction Equipment		1
Other Construction and Industrial Equipment		2
Material Handling Equipment		1
Rubber Tired Dozers (basic)		4
Signal Boards	6	6
Skid Steer Loaders		4
Sweepers/Scrubbers (basic)	1	1
Loaders/Backhoes		2
Trenchers		2

The estimated quarterly distribution of emissions for the Sacramento River Contracts is shown below.

Year	Q1	Q2	Q3	Q4
All Years			1/2	1/2

Barge Emissions Calculations
ARCF 2016
Sacramento River Erosion Protection - Contract 1

Basic Assumptions	
CY per Barge[1]	909
CY Imported[3]	23,000
Miles/ hr per barge	5
Extra Empty Trips	2
Total Hrs per Day	10
lbs/ tons	2000
lbs/MT	2204.62

	San Rafael to Rio Vista (in SFNA)	San Rafael to Rio Vista (in BAAQMD)	Rio Vista to Sacramento Erosion
No. of Barge in Tow	4	4	1
Miles (one-way)	10.4	45	40
Total Tow-Hours	**17**	**75**	**218**

	PM10	PM2.5	NOx	ROG	CO	SO2	CO2	CH4	N2O	CO2e (MT)
Two-Engine Push Boat Emissions (lb/hr)	1.45	1.29	35.04	2.09	8.97	0.01	1417.70	0.06	0.01	1422.56
Tug Boat Emissions (lb/hr)	0.37	0.33	8.53	0.54	1.90	0.00	456.06	0.02	0.00	457.63
Total Emissions for Push Boat - In SFNA (Tons)	0.01	0.01	0.30	0.02	0.08	0.00	12.27	0.00	0.00	11.17
Total Emission for Push Boat- In BAAQMD (Tons)[2]	0.05	0.05	1.31	0.08	0.34	0.00	53.11	0.00	0.00	48.35
Total Emissions for Tug Boat - In SFNA (Tons)	0.04	0.04	0.93	0.06	0.21	0.00	49.80	0.00	0.00	45.33
Sum of Emissions in SFNA (Tons)	**0.05**	**0.05**	**1.24**	**0.08**	**0.29**	**0.00**	**62.08**	**0.00**	**0.00**	**56.5**

Notes: [1] https://ihsmarkit.com/country-industry-forecasting.html?ID=106593483 , one barge has the capacity of 1500 tons and assuming 1.65 tons/cy of quarry rock

[2] BAAQMD NOx Threshold is 54 lb/day (Not relevent to General Conformity)

[3] Assuming All Contracts are 1.4 miles long and that 5.32L Reach is only 690 feet long; 10.7 increase in volume

Barge Emissions Calculations
ARCF 2016
Sacramento River Erosion Protection - Contracts 2, 3

Basic Assumptions		
CY per Barge[1]	909	
CY Imported	141,683	per year
Miles/ hr per barge	5	
Extra Empty Trips	2	
Total Hrs per Day	10	
lbs/ tons	2000	
lbs/MT	2204.62	

	San Rafael to Rio Vista (in SFNA)	San Rafael to Rio Vista (in BAAQMD)	Rio Vista to Sacramento Erosion
No. of Barge in Tow	4	4	1
Miles (one-way)	10.4	45	40
Total Tow-Hours	**85**	**369**	**1263**

	PM10	PM2.5	NOx	ROG	CO	SO2	CO2	CH4	N2O	CO2e (MT)
Two-Engine Push Boat Emissions (lb/hr)	1.61	1.44	35.71	2.09	8.97	0.01	1417.70	0.06	0.01	1422.56
Tug Boat Emissions (lb/hr)	0.37	0.33	6.47	0.54	1.90	0.00	456.06	0.02	0.00	457.63
Total Emissions for Push Boat - In SFNA (Tons)	**0.07**	**0.06**	**1.52**	**0.09**	**0.38**	**0.00**	**60.40**	**0.00**	**0.00**	**54.98**
Total Emission for Push Boat- In BAAQMD (Tons)[2]	**0.30**	**0.26**	**6.58**	**0.39**	**1.65**	**0.00**	**261.33**	**0.01**	**0.00**	**237.89**
Total Emissions for Tug Boat - In SFNA (Tons)	**0.23**	**0.21**	**4.09**	**0.34**	**1.20**	**0.00**	**287.96**	**0.01**	**0.00**	**262.13**
Sum of Emissions in SFNA (Tons)	**0.30**	**0.27**	**5.61**	**0.43**	**1.58**	**0.00**	**348.36**	**0.01**	**0.00**	**317.1**

Notes: [1] https://ihsmarkit.com/country-industry-forecasting.html?ID=106593483 , one barge has the capacity of 1500 tons and assuming 1.65 tons/cy of quarry rock

[2] BAAQMD NOx Threshold is 54 lb/day (Not relevent to General Conformity)

SMAQMD Harborcraft, Dredge and Barge Emission Factor Calculator - Main Engine Emission Rates

Calendar Year: 2023 **Number of Entries:** 2

Vessel/Engine Information								Emission Rates (lb/hr; estimates for each row are totals over the number of engines listed in column J for that row)									
Vessel Name	Vessel Number	Home Port	Vessel Type	Engine Model Year	Engine Rated Power (hp)	Engine Load Factor	Number of engines	PM_{10}	$PM_{2.5}$	NOx	ROG	CO	SO_2	CO_2	CH_4	N_2O	CO_2e
4- ganged barg			Tow Boats / Push Boats	1997	800	0.68	2	1.614	1.437	35.713	2.089	8.974	0.013	1417.698	0.058	0.012	1422.563
single barge			Tug Boats	2002	700	0.50	1	0.372	0.331	6.470	0.544	1.901	0.004	456.061	0.018	0.004	457.626

Attachment 2

Modeling Assumptions

Sacramento Weir

Supporting Calculations for Material Volumes, Equipment, and Quarterly Allocation of Emissions – Sacramento Weir

General Information

The Sacramento Weir contracts will construct a new levee section and demolish a temporary levee section near the Sacramento Weir, widen the weir, install a sheet pile cut-off wall with jet grouting, construct a fish passage channel, relocate a road on a constructed bridge section, construct a railroad bridge, place erosion protection and construct additional improvements in support of the primary construction activities. The table below shows the schedule used in the air quality analysis. The only variation anticipated to the schedule is the possibility of construction of the railroad (RR) bridge piles in 2021 instead of 2022. Case 1 is shown as X. Case 2 with the early RR bridge pile installation is shown as Case 2 with (X).

The expected construction schedule is April 15, 2021 to November 1, 2023 year around. Vegetation removal could occur in winter 2021.

Sacramento Weir Anticipated Schedule for Analysis

	2020	2021	2022	2023
Construct new levee and concrete liner, sheet pile cut-off wall foundation, site prep, temporary road, realigned road, construct island		X		
Construct River Road and RR Bridges, passive weir		(X)	X	
Degrade levees, construct fish passage channel, place erosion protection				X

General Construction Assumptions:

- Concrete, asphalt, aggregate, and pre-cast haul distances will be 30 miles
- Import soil haul distance will 30 miles
- Export soil will be disposed of on site with an assumed 0.6-mile haul distance
- Weir gates will be imported from out of state with an assumed haul distance of 200 miles within the Sacramento Federal Nonattainment Area (SFNA) air basin. Assume a total of 5 truckloads for delivery of the weir gates.
- Assume all haul trucks are 15 cubic yard end dumps.
- Assume River Road and Railroad Bridge decking is pre-cast members.
- Assume no degrading (excavation) for sheet piling.
- Assume weir, and north levee slope protection are poured in place concrete by pre-mix trucks (sourced at Rancho Cordova). Rebar will come on a flatbed truck. Assume 40,000 pounds (20 tons) rebar per load.
- Assume quarry stone will be delivered by barge. The expected shipping approach will use 4-ganged barges from the Bay Area to Rio Vista, anchor at Rio Vista and use smaller tugboats to deliver single barges to construction sites for offloading. Information on the expected horsepower of tugboat engines was provided by staff at Dutra Materials in San Rafael,

California. A push boat used to move materials from the quarry in San Rafael to Rio Vista on the Sacramento River typically has two engines at 800 horsepower each (1,600 horsepower total). Typical tugs for movement in the Sacramento River have a single engine at approximately 700 horsepower (Dennis Ferguson, personal communication).

At an air emissions review meeting on June 27, 2019, project material volumes were adjusted to the contemporaneous design as shown in the table below:

Sacramento Weir Materials Summary Table

Year	Action	Material	Volume	Units
2021	Import	Sheet Piles		
	Import	Soil	370,000	CY
	Import	Concrete	8,000	CY
	Import	Rip Rap (Quarry Rock)	25,000	CY
2022	Import	Asphalt	1,750	CY
	Import	Aggregate	15,000 1,500	CY CY
	Import	Concrete	13,700 7,600	CY CY
	Import	Rebar	686 556	Tons Tons
	Export Import Import	Soil	43,000 3,000 5,150	CY CY CY
	Import	Piles	216 200	Units Units
	Import	Pre-Cast Deck Panels Gates		
2023	Export	Soil	370,000 215,000 54,000	CY CY CY
	Import	Rip Rap (Quarry Rock)	75,000	CY
	Import	Aggregate	1,700 250	CY CY

At an air emissions review meeting on June 27, 2019, anticipated construction equipment was reviewed and adjusted as shown in the table below:

Sacramento Weir Assumed Construction Equipment

Equipment	Grubbing/ Clearing 2021 (Number)	Grading/ Excavation 2021 (number)	Grading/ Excavation 2022 (number)	Grading/ Excavation 2023 (number)
Bore/Drill Rigs		1		
Cement and Mortar Mixers		4	4	2
Cranes		4	4	2
Excavators	3	3	3	3
Generators	1	2	2	2
Graders			1	1
Off-Highway Trucks	5	5	5	5
Other Construction Equipment		1	1	1
Material Handling Equipment			1	1
Paving Equipment			1	1
Pumps		2	1	1
Rubber Tired Dozers			1	1
Scrapers			1	1
Surfacing Equipment			1	1
Sweepers/Scrubbers		1	1	1
Loaders/Backhoes		2	2	2
Trenchers		1	1	1

The estimated quarterly distribution of emissions for the Sacramento Weir construction is shown below.

Year	Q1	Q2	Q3	Q4
2021	13%	32%	42%	13%
2022	25%	25%	25%	25%
2023	13%	32%	42%	13%

Barge Emissions Calculations
ARCF 2016
Sacramento Weir - 2021

Basic Assumptions	
CY per Barge[1]	909
CY Imported	25,000
Miles/ hr per barge	5
Extra Empty Trips	2
Total Hrs per Day	10
lbs/ tons	2000
lbs/MT	2204.62

	San Rafael to Rio Vista (in SFNA)	San Rafael to Rio Vista (in BAAQMD)	Rio Vista to Sac Weir (in SFNA)
No. of Barge in Tow	4	4	1
Miles (one-way)	10.4	45	47
Total Tow-Hours	**18**	**80**	**277**

	PM10	PM2.5	NOx	ROG	CO	SO2	CO2	CH4	N2O	CO2e (MT)
Two-Engine Push Boat Emissions (lb/hr)	1.61	1.44	35.71	2.09	8.97	0.01	1417.70	0.06	0.01	1422.56
Tug Boat Emissions (lb/hr)	0.37	0.33	6.47	0.54	1.90	0.00	456.06	0.02	0.00	457.63
Total Emissions for Push Boat - In SFNA (Tons)	**0.01**	**0.01**	**0.33**	**0.02**	**0.08**	**0.00**	**13.09**	**0.00**	**0.00**	**11.91**
Total Emission for Push Boat- In BAAQMD (Tons)[2]	**0.06**	**0.06**	**1.43**	**0.08**	**0.36**	**0.00**	**56.62**	**0.00**	**0.00**	**51.54**
Total Emissions for Tug Boat - In SFNA (Tons)	**0.05**	**0.05**	**0.90**	**0.08**	**0.26**	**0.00**	**63.23**	**0.00**	**0.00**	**57.56**
Sum of Emissions in SFNA (Tons)	**0.07**	**0.06**	**1.23**	**0.09**	**0.35**	**0.00**	**76.32**	**0.00**	**0.00**	**69.5**

Notes: [1] https://ihsmarkit.com/country-industry-forecasting.html?ID=106593483 , one barge has the capacity of 1500 tons and assuming 1.65 tons/cy of quarry rock

[2] BAAQMD NOx Threshold is 54 lb/day (Not relevent to General Conformity)

Barge Emissions Calculations
ARCF 2016
Sacramento Weir - 2023

Basic Assumptions	
CY per Barge[1]	909
CY Imported	75,000
Miles/ hr per barge	5
Extra Empty Trips	2
Total Hrs per Day	10
lbs/ tons	2000
lbs/MT	2204.62

	San Rafael to Rio Vista (in SFNA)	San Rafael to Rio Vista (in BAAQMD)	Rio Vista to Sac Weir (in SFNA)
No. of Barge in Tow	4	4	1
Miles (one-way)	10.4	45	47
Total Tow-Hours	**47**	**204**	**794**

	PM10	PM2.5	NOx	ROG	CO	SO2	CO2	CH4	N2O	CO2e (MT)
Two-Engine Push Boat Emissions (lb/hr)	1.61	1.44	35.71	2.09	8.97	0.01	1417.70	0.06	0.01	1422.56
Tug Boat Emissions (lb/hr)	0.37	0.33	6.47	0.54	1.90	0.00	456.06	0.02	0.00	457.63
Total Emissions for Push Boat - In SFNA (Tons)	**0.04**	**0.03**	**0.84**	**0.05**	**0.21**	**0.00**	**33.36**	**0.00**	**0.00**	**30.37**
Total Emission for Push Boat- In BAAQMD (Tons)[2]	**0.16**	**0.15**	**3.64**	**0.21**	**0.91**	**0.00**	**144.34**	**0.01**	**0.00**	**131.39**
Total Emissions for Tug Boat - In SFNA (Tons)	**0.15**	**0.13**	**2.57**	**0.22**	**0.76**	**0.00**	**181.12**	**0.01**	**0.00**	**164.88**
Sum of Emissions in SFNA (Tons)	**0.19**	**0.17**	**3.41**	**0.27**	**0.97**	**0.00**	**214.48**	**0.01**	**0.00**	**195.2**

Notes: [1] https://ihsmarkit.com/country-industry-forecasting.html?ID=106593483 , one barge has the capacity of 1500 tons and assuming 1.65 tons/cy of quarry rock

[2] BAAQMD NOx Threshold is 54 lb/day (Not relevent to General Conformity)

SMAQMD Harborcraft, Dredge and Barge Emission Factor Calculator - Main Engine Emission Rates

Calendar Year: 2023 **Number of Entries:** 2

Vessel/Engine Information								Emission Rates (lb/hr; estimates for each row are totals over the number of engines listed in column J for that row)									
Vessel Name	Vessel Number	Home Port	Vessel Type	Engine Model Year	Engine Rated Power (hp)	Engine Load Factor	Number of engines	PM_{10}	$PM_{2.5}$	NOx	ROG	CO	SO_2	CO_2	CH_4	N_2O	CO_2e
4- ganged barg			Tow Boats / Push Boats	1997	800	0.68	2	1.614	1.437	35.713	2.089	8.974	0.013	1417.698	0.058	0.012	1422.563
single barge			Tug Boats	2002	700	0.50	1	0.372	0.331	6.470	0.544	1.901	0.004	456.061	0.018	0.004	457.626

Attachment 3

Modeling Assumptions

Seepage and Stability

Supporting Calculations for Material Volumes, Equipment, and Quarterly Allocation of Emissions – Seepage and Stability

General Information

The Seepage and Stability contracts will complete levee improvements primarily along the left bank (looking downstream) of the Sacramento River from the confluence with the American River through the pocket areas of Sacramento. Some improvements are also included along the North Area Streams, and on Magpie Creek. Improvement types will include cut-off walls (either soil bentonite or deep mix method [DMM]), seepage and stability berms, and relief wells. At the Magpie Creek Diversion Canal improvements will include raising the left bank levee, constructing a new levee and maintenance road along the west side of Raley Boulevard, adding a new maintenance road between Vinci Avenue and Dry Creek Road, adding erosion protection to the channel, and installing floodgates and culverts. Most of the Seepage and Stability contracts are relatively early in the design process and detailed information is not yet available.

To estimate air pollutant emissions, data from a 65% design cost estimate for the Sacramento River East Levees (SREL) prepared by GEI Consultants in 2015 and 2016 were used. Material volumes and construction equipment estimates from the 65% cost estimate were used as the basis to estimate material volumes and construction equipment for the proposed seepage and stability contracts levee improvements. The original design cost estimate, material volume estimates, and construction equipment estimates are included in this section. Calculations applying the previous estimates to the new contract configurations on a linear foot of levee basis are also included along with the anticipated allocation of reaches to contracts.

The expected construction schedule is April 15 to October 31. Mobilization is assumed to start as early as April 1. The currently anticipated construction schedule for the Seepage and Stability Contracts is shown in the table below:

Seepage and Stability – Anticipated Schedule for Analysis					
	2019	**2020**	**2021**	**2022**	**2023**
SREL					
Contract 1		X			
Contract 2			X		
Contract 3				X	
Contract 4 (Kleinfelder reaches)					X
Reach D	X				
Magpie Creek				X	

General Construction Assumptions:

- Assume all haul truck are 15 cubic yard end dumps.
- Assume an average of 100 feet of cut-off wall can be completed in one day.
- Additional assumptions are included in the attached calculation sheets.

The estimated quarterly distribution of emissions for the Seepage and Stability contracts is shown below. Quarterly allocations assume construction in April through October only. For berms and wells, the landside construction can slip to quarter 3 (Q3) and quarter 4 (Q4). For cutoff walls, the full construction season is needed and must be completed by October 31.

Berm and Wells Quarterly Distribution of Emissions

Year	Q2	Q3	Q4
2020	25%	37.5%	37.5%
2021	25%	37.5%	37.5%
2022	25%	37.5%	37.5%

Cutoff Wall Quarterly Distribution of Emissions

Year	Q2	Q3	Q4
2020	43%	43%	14%
2021	43%	43%	14%

Included in the following pages:

- 65% Design Cost Estimate
- Calculations supporting the air quality analysis for the 65% Design
- Calculations using the 65% Design as the basis to allocate materials and equipment to the currently anticipated design for Seepage and Stability (excluding Magpie Creek)
- Calculations using the estimated equipment from the 65% Design to estimate equipment for the currently anticipated design for Seepage and Stability

Bid Schedule A - SAFCA Sacramento River East Levee *Landside Berms and Drains and Waterside Blanket*
(STA 1080+00 to 1117+00, STA 1249+50 to 1253+00, STA 1533+00 to 1536+50)

All

Line Item No.	Item Description	Estimated Quantity	Unit	Unit Price ($)	Total Price ($)	Unit Price ($) - base	Total Price ($) - base	Notes
1	Mobilization and Demobilization	1	LS	$111,550.00	$111,600	$97,000.00	$97,000	5% of other costs
2	Traffic Control	1	LS	$111,550.00	$111,600	$97,000.00	$97,000	5% of other costs
3	Storm Water Pollution Control	1	LS	$111,550.00	$111,600	$97,000.00	$97,000	5% of other costs
4	Demolition (STA 1080+00 to 1117+00, STA 1249+50 to 1253+00, STA 1533+00 to 1536+50)	1	LS	$57,500.00	$57,500	$50,000.00	$50,000	Reach 2 pole and fence demo. Bumped up to $50k after comments from Dwanket
5	Remove Bike Path	100	SY	$17.25	$1,800	$15.00	$1,500	
6	Remove Aggregate Surfacing	340	SY	$9.20	$3,300	$8.00	$2,800	$7.90/SY from Southport
9	Remove Utility Crossings (STA 1080+00 to 1117+00, STA 1249+50 to 1253+00, STA 1533+00 to 1536+50)	1	LS	$247,250.00	$247,300	$215,000.00	$215,000	
10	Clearing and Grubbing **	4.5	AC	$6,900.00	$31,100	$6,000	$27,000	Includes tree removal
11	Topsoil Stripping **	3,700	CY	$5.75	$21,300	$5.00	$18,500	
12	Levee Excavation And Disposal (Offsite)	8,500	CY	$13.80	$117,300	$12.00	$102,000	Clean exc only. $6.75 haul, $5 excavate/load
13	Levee Excavation And Disposal (Landfill)	11,300	CY	$46.00	$519,800	$40.00	$452,000	Contaminated soils only. Equal to the total exc for Reaches 2, 5, and 6. $11.25 haul, $5 excavate/load, Cost increased to $40 to allow for disposal fee at landfill.
14	Drainage Layer	7,700	CY	$57.50	$442,800	$50.00	$385,000	
15	Levee Embankment Fill (Soil Type 1)	600	CY	$28.75	$17,300	$25.00	$15,000	$10 place/compact, $9.25 haul, $5 excavate/load
16	Levee Embankment Fill (Soil Type 2)	22,300	CY	$28.75	$641,200	$25.00	$557,500	$10 place/compact, $9.25 haul, $5 excavate/load
17	Class 2 Aggregate Base	120	TN	$46.00	$5,600	$40.00	$4,800	
18	Asphalt Concrete Paving	20	TN	$287.50	$5,800	$250.00	$5,000	
19	Remove and Replace Existing Sign	1	EA	$293.25	$400	$255.00	$300	Reach 2
20	Remove and Replace Catwalk	1	EA	$3,450.00	$3,500	$3,000.00	$3,000	Reach 4, for waterside fill
21	Remove and Replace Utility Pole	1	EA	$23,000.00	$23,000	$20,000.00	$20,000	Reach 11
22	Remove and Raise Storm Drain Manhole	1	EA	$14,375.00	$14,400	$12,500.00	$12,500	Reach 11
23	Install Chain Link Fence	1,370	LF	$34.50	$47,300	$30.00	$41,100	New fences in Reach 2 and Reach 5
24	Erosion Control Seeding	4.5	AC	$4,600.00	$20,700	$4,000.00	$18,000	
25	Allowance for Unlisted Items	1	LS	$384,100.00	$384,100	$334,000.00	$334,000	20% of other costs
	SUBTOTAL SCHEDULE A:				**$2,940,300**		**$2,556,000**	

* See notes following Bid Schedule Summary Table.

Bid Schedule B - SAFCA Sacramento River East Levee *SB Open Trench Cutoff Wall and SCB DMM Cutoff Wall*
(STA 1116+00 to 1125+50, STA 1199+00 to 1207+75, STA 1285+00 to 1310+00, STA 1336+00 to 1407+50, STA 1447+00 to 1505+00, STA 1547+50 to 1570+00, STA 1600+00 to 1640+00)

Line Item No.	Item Description	Estimated Quantity	Unit	Unit Price ($)	Total Price ($)	Unit Price ($)	Total Price ($)	Notes
1	Mobilization and Demobilization	1	LS	$2,665,700.00	$2,665,700	$2,318,000.00	$2,318,000	10% of other costs
2	Traffic Control	1	LS	$1,332,850.00	$1,332,900	$1,159,000.00	$1,159,000	5% of other costs
3	Storm Water Pollution Control	1	LS	$1,332,850.00	$1,332,900	$1,159,000.00	$1,159,000	5% of other costs
4	Demolition (STA 1116+00 to 1125+50, STA 1199+00 to 1207+75, STA 1285+00 to 1310+00, STA 1336+00 to 1407+50, STA 1447+00 to 1505+00, STA 1547+50 to 1570+00, STA 1600+00 to 1640+00)	1	LS	$115,000.00	$115,000	$100,000.00	$100,000	Bumped up to 100k after comments from Dan Wanket
5	Remove Bike Path	13,870	SY	$17.25	$239,400	$15.00	$208,100	
6	Remove Aggregate Surfacing	38,260	SY	$9.20	$352,100	$8.00	$306,100	$7.90/SY from Southport
7	Remove Utility Crossings (STA 1116+00 to 1125+50, STA 1199+00 to 1207+75, STA 1285+00 to 1310+00, STA 1336+00 to 1407+50, STA 1447+00 to 1505+00, STA 1547+50 to 1570+00, STA 1600+00 to 1640+00)	1	LS	$189,750.00	$189,800	$165,000.00	$165,000	
8	Abandon Piezometers	6	EA	$5,750.00	$34,500	$5,000.00	$30,000	1354+70, 1462+00, 1551+20
9	Provide Pump Station 3 Bypass	1	LS	$57,500.00	$57,500	$50,000.00	$50,000	Sewer line at Miller Park
10	Clearing and Grubbing **	18.1	AC	$6,900.00	$124,900	$6,000	$108,600	Includes tree removal
11	Topsoil Stripping **	14,700	CY	$5.75	$84,600	$5.00	$73,500	
12	Levee Excavation (Levee Degrade and Cutoff Trench)	196,000	CY	$16.10	$3,155,600	$14.00	$2,744,000	$8.75 haul, $5 excavate/load
13	Cutoff Wall, Open Trench Soil-Bentonite (SB) [S]	1,232,000	SF	$8.05	$9,917,600	$7.00	$8,624,000	
14	Cutoff Wall, Mix-In-Place Soil-Cement-Bentonite (SCB) [S]	114,000	SF	$26.45	$3,015,300	$23.00	$2,622,000	
15	Levee Embankment Fill (Soil Type 1)	215,000	CY	$34.50	$7,417,500	$30.00	$6,450,000	$10 place/compact, $14.10 haul, $5 excavate/load
16	Class 2 Aggregate Base	14,080	TN	$46.00	$647,700	$40.00	$563,200	
17	Asphalt Concrete Paving	2,350	TN	$287.50	$675,700	$250.00	$587,500	
18	Replace - 24 Inch Pipe - Sump 63	1	LS	$218,500.00	$218,500	$190,000.00	$190,000	
19	Replace - 2 Inch Electrical Conduit - STA 1460+24	1	LS	$5,750.00	$5,800	$5,000.00	$5,000	
20	Replace - 2 Inch Water Pipe, 1.5 Inch Sewer Pipe, 1 Inch Electrical Conduit - STA 1460+80 To STA 1460+85	1	LS	$40,250.00	$40,300	$35,000.00	$35,000	
21	Remove and Replace Utility Pole	8	EA	$23,000.00	$184,000	$20,000.00	$160,000	Miller Park, G-139, 1550+50, 1612+20
22	Remove and Replace Existing Storm Drain	1	EA	$5,750.00	$5,800	$5,000.00	$5,000	STA 1120+00
23	Remove and Replace Recycling Box	1	EA	$1,150.00	$1,200	$1,000.00	$1,000	STA 1123+20
24	Remove and Replace Public Gate	7	EA	$4,600.00	$32,200	$4,000.00	$28,000	STA 1347+00, 1360+64, 1389+00, 1463+62, 1549+64, 1554+70, 1633+65
25	Remove and Replace Private Gate	2	EA	$4,600.00	$9,200	$4,000.00	$8,000	1380+36, 1503+40
26	Remove and Replace Chain Link Fence	430	LF	$46.00	$19,800	$40.00	$17,200	STA 1347+00, 1360+64, 1380+36, 1389+00, 1463+62, 1503+40
27	Remove and Replace Sign	4	EA	$293.25	$1,300	$255.00	$1,100	1447+92, 1551+30, 1615+26, 1632+90. Cost from Southport

28	Remove and Replace Chain Post Fence	760	LF	$34.50	$26,300	$30.00	$22,800	G-148, 149
29	Remove and Replace Concrete Walkway	1	LS	$2,300.00	$2,300	$2,000.00	$2,000	1553+30
30	Erosion Control Seeding	18.1	AC	$4,600.00	$83,300	$4,000.00	$72,400	
31	Allowance for Unlisted Items	1	LS	$4,798,950.00	$4,799,000	$4,173,000.00	$4,173,000	20% of other costs
	SUBTOTAL SCHEDULE B:				**$36,787,700**		**$31,988,500**	

* See notes following Bid Schedule Summary Table.

Bid Schedule C - SAFCA Sacramento River East Levee *Relief Wells*
(STA 1095+50 to 1096+50, STA 1249+00 to 1256+00, STA 1424+00 to 1447+00, STA 1517+00 to 1548+00)

Line Item No.	Item Description	Estimated Quantity	Unit	Unit Price ($)	Total Price ($)	Unit Price ($)	Total Price ($)	Notes
1	Mobilization and Demobilization	1	LS	$309,350.00	$309,400	$269,000.00	$269,000	
2	Traffic Control	1	LS	$309,350.00	$309,400	$269,000.00	$269,000	
3	Storm Water Pollution Control	1	LS	$309,350.00	$309,400	$269,000.00	$269,000	
4	Demolition (STA 1095+50 to 1096+50, STA 1249+00 to 1256+00, STA 1424+00 to 1447+00, STA 1517+00 to 1548+00)	1	LS	$57,500.00	$57,500	$50,000.00	$50,000	Placeholder cost
5	Remove Roadway	2,690	SY	$9.20	$24,900	$8.00	$21,600	$7.90/SY from Southport
6	Clearing and Grubbing **	0.2	AC	$6,900.00	$1,400	$6,000	$1,200	Unpaved areas only
7	Topsoil Stripping **	200	CY	$5.75	$1,200	$5.00	$1,000	Unpaved areas only
8	Relief Well (Less Than 90 Foot Depth)	30	EA	$63,250.00	$1,897,500	$55,000.00	$1,650,000	Reach 4: 2, Reach 11: 6, Reach 20: 13, Reach 24: 9
9	Relief Well (90 Foot Or Greater Depth)	16	EA	$86,250.00	$1,380,000	$75,000.00	$1,200,000	Reach 4: 2, Reach 22: 13, Reach 24: 1
10	8-inch Double Wall HDPE Pipe	520	LF	$230.00	$119,600	$200.00	$104,000	All RW Reaches
11	10-inch Double Wall HDPE Pipe	60	LF	$258.75	$15,600	$225.00	$13,500	Reach 11
12	12-inch Double Wall HDPE Pipe	1,510	LF	$287.50	$434,200	$250.00	$377,500	Reach 4, 11, 20, 24
13	15-inch Double Wall HDPE Pipe	500	LF	$333.50	$166,800	$290.00	$145,000	Reach 4, 11
14	18-inch Double Wall HDPE Pipe	3,390	LF	$373.75	$1,267,100	$325.00	$1,101,800	Reach 11, 20, 22, 24
15	24-inch Double Wall HDPE Pipe	1,250	LF	$431.25	$539,200	$375.00	$468,800	Reach 22
16	12-inch Discharge Outlet To Sump	1	EA	$17,250.00	$17,300	$15,000.00	$15,000	Reach 20
17	18-inch Discharge Outlet To Sump	3	EA	$23,000.00	$69,000	$20,000.00	$60,000	Reach 11, 20, 24
18	24-inch Discharge Outlet To Sump	1	EA	$23,000.00	$23,000	$20,000.00	$20,000	Reach 22
19	Class 2 Aggregate Base	730	TN	$46.00	$33,600	$40.00	$29,200	
20	Asphalt Concrete Paving	460	TN	$287.50	$132,300	$250.00	$115,000	
21	Erosion Control Seeding	0.2	AC	$4,600.00	$1,000	$4,000.00	$800	Unpaved areas only
22	Allowance for Unlisted Items	1	LS	$1,067,200.00	$1,067,200	$928,000.00	$928,000	20% of other costs
	SUBTOTAL SCHEDULE C:				**$8,176,600**		**$7,109,400**	

* See notes following Bid Schedule Summary Table.

Bid Schedule D - SAFCA Sacramento River East Levee *Landside Slope Flattening and Demolition*
(STA 1321+50 to 1323+00)

Line Item No.	Item Description	Estimated Quantity	Unit	Unit Price ($)	Total Price ($)	Unit Price ($)	Total Price ($)	Notes
1	Mobilization and Demobilization	1	LS	$6,900.00	$6,900	$6,000.00	$6,000	5% of other costs
2	Traffic Control	1	LS	$6,900.00	$6,900	$6,000.00	$6,000	5% of other costs
3	Storm Water Pollution Control	1	LS	$6,900.00	$6,900	$6,000.00	$6,000	5% of other costs
4	Demolition (STA 1321+50 to 1323+00)	1	LS	$115,000.00	$115,000	$100,000.00	$100,000	
5	Clearing and Grubbing **	0.3	AC	$6,900.00	$2,100	$6,000	$1,800	Unpaved areas only
6	Topsoil Stripping **	300	CY	$5.75	$1,800	$5.00	$1,500	Unpaved areas only
7	Levee Embankment Fill (Soil Type 2)	500	CY	$34.50	$17,300	$30.00	$15,000	C-125
8	Erosion Control Seeding	0.3	AC	$4,600.00	$1,400	$4,000.00	$1,200	Unpaved areas only
9	Allowance for Unlisted Items	1	LS	$23,805.00	$23,900	$20,700.00	$20,700	
	SUBTOTAL SCHEDULE D:				**$182,200**		**$158,200**	

* See notes following Bid Schedule Summary Table.

Bid Schedule E - SAFCA Sacramento River East Levee *Piezometers*
(STA 1080+00 to 1645+00)

Line Item No.	Item Description	Estimated Quantity	Unit	Unit Price ($)	Total Price ($)	Unit Price ($)	Total Price ($)	Notes
1	Mobilization and Demobilization	1	LS	$15,870.00	$15,900	$13,800.00	$13,800	
2	Traffic Control	1	LS	$15,870.00	$15,900	$13,800.00	$13,800	
3	Storm Water Pollution Control	1	LS	$15,870.00	$15,900	$13,800.00	$13,800	
4	Abandon Piezometers	8	EA	$5,750.00	$46,000	$5,000.00	$40,000	14 total, 6 are within levee degrade limits, included in bid schedule B.
5	Piezometer (Open Standpipe)	16	EA	$5,980.00	$95,700	$5,200.00	$83,200	
6	Piezometer (Vibrating Wire)	23	EA	$7,130.00	$164,000	$6,200.00	$142,600	Vertical linear feet of piezometer installed.
7	Data Logger (Open Standpipe - Optional)	1	EA	$1,725.00	$1,800	$1,500.00	$1,500	
8	Data Logger (Vibrating Wire - Optional)	23	EA	$1,150.00	$26,500	$1,000.00	$23,000	
9	Handheld Readout Device (Vibrating Wire - Optional)	16	EA	$1,725.00	$27,600	$1,500.00	$24,000	
10	Allowance for Unlisted Items	1	LS	$61,410.00	$61,500	$53,400.00	$53,400	
	SUBTOTAL SCHEDULE E:				**$470,800**		**$409,100**	

* See notes following Bid Schedule Summary Table.

Bid Schedule F - SAFCA Sacramento River East Levee *Erosion Repair*
(STA 1080+00 to 1645+00)

Line Item No.	Item Description	Estimated Quantity	Unit	Unit Price ($)	Total Price ($)	Unit Price ($)	Total Price ($)	Notes
1	Mobilization and Demobilization	1	LS	$668,265.00	$668,300	$581,100.00	$581,100	
2	Traffic Control	1	LS	$668,265.00	$668,300	$581,100.00	$581,100	
3	Storm Water Pollution Control	1	LS	$668,265.00	$668,300	$581,100.00	$581,100	
4	Clearing and Grubbing **	1.8	AC	$6,900.00	$12,200	$6,000	$10,600	assumed same as erosion seeding, not included in CBEC estimate
5	Topsoil Stripping **	900	CY	$5.75	$5,200	$5.00	$4,500	assumed same as erosion seeding, not included in CBEC estimate
6	Quarry Rock	103,686	TN	$86.25	$8,943,000	$75.00	$7,776,500	1.65tn/cy.
7	Graded Stone C	14,416	TN	$86.25	$1,243,500	$75.00	$1,081,300	1.65tn/cy.
8	Filter Rock	6,100	CY	$57.50	$350,800	$50.00	$305,000	3600lbs/cy. Used agg base unit cost and density
9	Sand	2,030	CY	$57.50	$116,800	$50.00	$101,500	
10	Soil	6,750	CY	$28.75	$194,200	$25.00	$168,800	
11	Gravel Filter	2,736	TN	$57.50	$157,400	$50.00	$136,800	3600lbs/cy. Used agg base unit cost and density
12	Coir Fabric	4,260	SY	$6.20	$26,500	$5.39	$23,000	
13	Beaver Barrier	3,530	CY	$13.80	$48,800	$12.00	$42,400	
14	Tules (Ballast Bucket)	1,716	EA	$17.25	$29,700	$15.00	$25,800	
15	Live Siltation Willows	3,585	LF	$34.50	$123,800	$30.00	$107,600	
16	Willow Pole Cuttings	16,395	EA	$11.50	$188,600	$10.00	$164,000	
17	Container Plantings	8,501	EA	$28.75	$244,500	$25.00	$212,600	
18	Erosion Control Seeding	2	AC	$5,750.00	$10,200	$5,000.00	$8,800	
19	Instream Woody Material	388	EA	$4,301.00	$1,668,900	$3,740.00	$1,451,200	
20	Allowance for Unlisted Items	1	LS	$2,305,290.00	$2,305,300	$2,004,600.00	$2,004,600	
	SUBTOTAL SCHEDULE F:				**$17,674,300**		**$15,368,300**	

* See notes following Bid Schedule Summary Table.

BID SCHEDULE SUMMARY:

SUBTOTAL SCHEDULE A:	**$2,940,300**	**$2,556,000**
SUBTOTAL SCHEDULE B:	**$36,787,700**	**$31,988,500**
SUBTOTAL SCHEDULE C:	**$8,176,600**	**$7,109,400**
SUBTOTAL SCHEDULE D:	**$182,200**	**$158,200**
SUBTOTAL SCHEDULE E:	**$470,800**	**$409,100**
SUBTOTAL SCHEDULE F:	**$17,674,300**	**$15,368,300**
TOTAL (SCHEDULES A+B+C+D+E+F):	**$66,231,900**	**$57,589,500**

CONSTRUCTION SUMMARY AND COST RECONCILIATION:

Work Item	65% Design Estimate	February 2016 Estimate	65% Design - base
Levee Remediation (Schedules A thru E)	$48,557,600	$49,532,000	$42,221,200
Erosion Repair (Schedule F)	$17,674,300	$11,554,000	$15,368,300
Allowance for Penetrations Requiring Remediation Outside Levee Remediation Reaches (not included above)	$2,200,000	$2,200,000	$2,200,000
Total Estimated Cost	**$68,431,900**	**$63,286,000**	**$59,789,500**

Notes:

1 Cost Estimate is based on July 2016 65% design drawings
2 All quantities are in-place quantities.
3 This estimate does not include potential costs to address encroachments, or vegetation removal outside that required for levee remediation
4 Construction contingency is assumed to be included separately in the overall program contingency and is not included here

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ARCF 2016
General Conformity Analysis

Material Volume Data from 2016 Sacramento River East Levee Project Allocated to WRDA (ARCF) 2016 Seepage and Stability Contracts Configuration

Phases	Type 1 and Type 2 Fill from Borrow Site (cy)	To/From Stockpile (cy)	From Offsite Quarry (Agg/Asph, cy)	To Offsite Disposal (cy)	Misc Materials (cy)	Duration (months)*	Duration (Months) only for Cutoff Wall Construction	Acres*	Key Assumptions
Data Reference - from 2016 work for NEPA analysis, Opinion of Probable Construction Cost - 65% Design Bid Schedule and Line	A15, 16, D7 B15	A 11, 12, D6 B 11, 12 C 7 F 5, 8, 9, 11	A 14, 17, 18 B 16, 17 C 19, 20 F 6, 7	A5, 6, 13 X B 5, 6 X C5	Input from engineers				
Mobilization					1,500	1	4		25% demobilization/remobilization between seasons
Vegetation/Encroachment Removal					1,500	4	4		vegetation/debris disposal to offsite
Berms, Toe Drains, Slope Flattening	23,400	12,500	7,780	11,400		4	0	4.8	
Utility Relocation						2.3	0		debris removal
Levee Degrade for Cut-Off Wall		210,700		8,710		3	3	18.1	
Utility Relocation						1.7	1.7		debris removal
Cut-Off Wall Construction					7,250	5	5		6000 cy bentonite (2% dry weight in mix and slurry), 1260 cy cement (10% mix)
Levee Reconstruction	215,000		9,130			4	4		agg/asph assumed the same as 2014 analysis in lieu of Bid B17
Relief Wells		200	670	450	750	6	0	0.2	materials deliveries, pipe, etc
Site Restoration					750	3	3		
Demobilization						2	2		

Do not have original documentation of assumptions.

Txt Blue - GEI AQ Assumptions

*Duration comes from the original SREL work - SRELConstruction Assumptions2016.xls

*Acres from the Bid Schedule referenced.

Original Quantity Assumptions for SREL in 2016 from D Sutton/GEI (Sacramento River East Levee Project Admin Draft EA, Table 2-2):

Cut-Off Walls:	23,535	linear feet
Berms:	2,288	linear feet
Relief Wells:	42	wells

Assumptions:

Debris assumptions for asphalt removal volumes - assume 6-in depth	0.167	yd
X - Allocate previous utility relocation by ratio of total cost Schedule A ($247250 - 57%) to Schedule B ($189750 - 43%)		
From Bid Schedule, assume for quarry rock =	1.65	ton/cy
From Bid Schedule, assume for filter rock and aggregate =	1.8	tons/cy (3600 lbs/cy)
Asphalt concrete delivered in 20 ton loads =	1.96	tons/cy

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General Conformity Analysis

Sacramento River Seepage and Stability Contracts - construction assumptions and quantities

Year	Contract[1]	Reach[1]	Acres Disturbed	Cut-Off Wall, Bentonite, Trench (Linear FT)[1]	Cut-Off Wall, DMM (Linear FT)[1]	Berm (feet)[1]	Other Construction[1]	Linear FT CO Wall Total	% Total Linear Feet of CO Wall	% Total Linear Feet of DMM	Total % of Cutoff Wall	Anticipated COW Schedule from Client (months)	Calculated COW Schedule based on 100 linear feet/day (Months)	Notes
2020	1	4-1	1.5				4 relief wells, water side levee reconstruction (blanket)	14,000			**34%**	7	6.4	Reach Length is 225 ft
	1	4-2	3.5			525	berm							
	1	6-2	2.0	380					1%					Reach Length 380 ft (corrected
	1	7-1	2.5	570					1%					
	1	7-2	3			448	seepage berm							
	1	9	5	700					2%					
	1	12	6.5		860					2%				
	1	13a	7		930					2%				
	1	24	6.1		1,560					4%				
	1	25	1.7	450					1%					
	1	26	6.0	1,550					4%					
	1	L2	11.6	3,000					7%					
	1	27	15.5	4,000					10%					
2021	2	5	2			600	partial berm and	11,670			**29%**	7	5.3	
	2	6-1	1			700	berm and jet grout							
	2	8	10	1,400					3%					
	2	13b	7.5	920					2%					
	2	14	19	2,600					6%					
	2	15	16.7	3,700					9%					
	2	16	8.3	1,850					5%					
	2	21-2	7.5	1,200					3%					
2022	3	11-2	1	570			relief wells, joint fix, or cut off wall	12,215	1%		**30%**	7	5.6	
	3	11-3	0	665					2%					
	3	17	4	1,600					4%					
	3	20	10.5	5,200			possible relief wells		13%					
	3	21-1	8	2,850					7%					
	3	22	4.5	1,330					3%					
2023	4		19	2,700				2,700	7%		**6.7%**	7	1.2	Contract 4 is new reaches (Kleinfelder and North Area Streams)
	4		9			1,300	levee raise							
		Total:	**200**	**37,235**	**3,350**	**3,573**		**40,585**	**92%**	**8%**	**100%**	**28**	**18**	
Total Linear Feet Cut-Off Walls (BT +DDM) and Berms =					**44,158**									

1) Allocation of reaches to Contracts and Reach length information from USACE (from Hans during meeting with Anne Baker/USACE 4/11/2019), and team meeting 6/27/2019 for Kleinfelder and NAS
2) Acres disturbed estimated either - by GEI engineering staff, or - by allocating total acres provided by Anne Baker/USACE by reach length, or - by using a calculate acres/linear foot based on Reach 9 (5 acres/700 linear feet = 0.0071 acre/LF)

Txt Red - GEI Engineer Assumptions
Txt Green - Calc From Anne's Doc
Txt Blue - Calc based on acre/LF

3) Treat all cut off walls as soil bentonite for worst case assumption, allocate total previous volumes from SREL based on percentage of linear feet.
4) New Berm Split - to allocate 2016 SREL estimates, need to include Reach 2 (2019 construction season)

Reach	Berm Length (ft)	% of Total	
2	450	11%	
4-2	525	13%	**Contract 1**
7-2	448	11%	**24%**
5	600	15%	**Contract 2**
6-1	700	17%	**32%**
Cnt 4	1300	32%	**Contract 4**
	4023		**32%**

5) Acres disturbed per year and months for COW construction based on rule of thumb for production rate (100 LF/day)

Year	Acres Disturbed	% Total Acres Disturbed per Year	Acres Disturbed for Berms and Wells	Linear Feet for Berms/Wells	Linear Miles for Berms/ Wells	Acres Disturbed for COW	Linear Feet for COW	Linear Miles for COW	Days to Construct COW at 100 LF per Day	Months to Construct COW (@ 22 Days /Mo)
2020	72	36%	8	973	0.18	64	14,000	2.65	140	6.4
2021	72	36%	8	1,300	0.25	69	11,670	2.21	117	5.3
2022	28	14%	0	-	-	28	12,215	2.31	122	5.6
2023	29	14%	9	1,300	0.25	19	2,700	0.51	27	1.2

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General Conformity Analysis

Data from Previous SREL Analysis Allocated to Sacramento S_S Contracts by Year
Data Source - Opinion of Probable Construction Cost - 65% Design

	Import			Import			Import			Export			Import		
Phases	**Type 1 and Type 2 Fill from Borrow Site (cy) (from SAC S_S Adjusted)**	**Trip Distance (miles)**	**Round Trips (miles)**	**To/From Stockpile (cy) (from SAC S_S Adjusted)**	**Trip Distance (miles)**	**Round Trips (miles)**	**From Offsite Quarry (Agg/Asph, cy) (from SAC S_S Adjusted)**	**Trip Distance (miles)**	**Round Trips (miles)**	**To Offsite Disposal (cy) (from SAC S_S Adjusted)**	**Trip Distance (miles)**	**Round Trips (miles)**	**Misc Materials (cy) (from SAC S_S Adjusted)**	**Trip Distance (miles)**	**Round Trips (miles)**
Data Reference - from 2016 work for NEPA analysis, Opinion of Probable Construction Cost - 65% Design Bid Schedule and Line	A15, 16, D7 B15			A 11, 12, D6 B 11, 12 C 7 F 5, 8, 9, 11			A 14, 17, 18 B 16, 17 C 19, 20 F 6, 7			A5, 6, 13 X B 5, 6 X C5			B13, 15		
Mobilization													2,565	15	30
Vegetation/Encroachment Removal										2,565	13	26			
Berms, Toe Drains, Slope Flattening	40,015	13	26	21,375	30	60	13,304	13	26	19,494	30	60			
Utility										51	13	26			
Cut-Off Walls	367,656	13	26	360,302	30	60	15,613	13	26	14,929	30	60	12,398	4.5	9
Relief Wells				342	30	60	1,146	13	26	770	13	26	1,283	6.5	13
2020 Contract 1				33	30	60	109	13	26	73	13	26	122	6.5	13
Site Restoration													1,283	15	30
Demobilization													2,565	15	30

Notes: Berm and toes drain total not equal to 100% because Reach 2 not part of current contract.
Relief well total equal to 2020 Contract 1 only for reduction of number of wells relative to 2016 data.

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ARCF 2016
General Conformity Analysis

Data from Previous SREL Analysis Allocated to Sacramento S_S Contracts by Year
Data Source - Opinion of Probable Construction Cost - 65% Design

Assumptions:

Assumed truck volume =	15	cubic yards
Assume all fill (Type 1 and Type 2) from WWTP Borrow Site at	13	miles
Assume all stockpile is at undecided location at	30	miles
Assume haul to landfill at	13	miles

Current plan is to take import fill from WWTP (8521 Laguna Station Road, Elk Grove) - this is approximately 13 miles from top of Pocket using Pocket Road.
Export material current plan is to go to Railyards Development in Downtown Sacramento (5-6 miles), however may not be able to dispose here due to poor alignment in construction schedule, so use 30 miles for soil export material.

Assume berms split as follows:

24%	2020	
32%	2021	
32%	2023	

Allocated Cut Off Walls as follows:

Contract 1	2020	34.5%
Contract 2	2021	28.8%
Contract 3	2022	30.1%
Contract 4	2023	6.7%

Assume mobilization split:

2020	30%
2021	20%
2022	20%
2023	30%

times the material volumes estimated in 2016 based on the increase in linear feet of cut-off walls and berms

SREL Material Volume Increase: 1.71 from 25,873 linear feet in 2016 to current length

Relief Well **: 10% **Table 2-2: 42 relief wells total from 2016 (current 4 wells)

Assumed barge volume from Offsite Quarry (Barge)= 909 cubic yards*

* One barge has the capacity of 1,500 tons. Jun 4, 2009. From Bid Schedule, assume 1.65 tons/cy of quarry rock. At density, one barge has the capacity of 909 cubic yards.
https://ihsmarkit.com/country-industry-forecasting.html?ID=106593483

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WRDA 2016
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Seepage and Stability Contracts
Conceptual Construction Equipment Estimate

Estimate of Construction Equipment Based on Sacramento River East Levee 2016 Air Quality Analysis Data
Pages 1 and 2 contain original equipment estimates. Allocation to WRDA S/S Tasks is Shown on Page 3.
Allocation to RCEM Equipment categories is shown on page 4.

This list shows the types of equipment the contractor would select from and is not intended to be prescriptive of what they shall use.

Project Phase		Mobilization		Vegetation and Encroachment Removal		Levee Degradation for Cutoff Wall Installation		Cutoff Wall Installation		Construction of Stability Berms and Toes Drains	
Equipment Description	**CalEEMod/EMFAC Category**	**Maximum Quantity of Vehicles**	**Duration per vehicle (mths)**	**Maximum Quantity of Vehicles**	**Duration per vehicle (mths)**	**Maximum Quantity of Vehicles**	**Duration per vehicle (mths)**	**Maximum Quantity of Vehicles**	**Duration per vehicle (mths)**	**Maximum Quantity of Vehicles**	**Duration per vehicle (mths)**
Equipment/supply Transport Trucks	HDT	5	0.25							1	4
Hydraulic Excavator	Excavator			1	4	2	3			1	4
Long-Stick Excavator	Excavator							3	5		
Front-end Loader	T/L/B			1	4	1	3	3	5	1	4
Bulldozer	Rubber Tired Dozer					3	3	5	5	2	4
Highway Dump Truck	HDT			5	4	20	3			10	2
Grader	Grader					1	3			2	2
Water Truck	HDT					1	3			1	4
Self-propelled Sheepsfoot or Tramping Roller	Roller									2	2
Vibratory Smooth-Wheel Compactor	Roller									1	2
Forklift	Forklift							5	5		
DMM Rig	Drill Rig							2	2.5		
Bulk Material and Hydration Silos	none							8	5		
Truck-Mounted Crane	Crane							2	2		
Concrete Transit Truck	HDT										
Lubricating Truck	T7 Utility										
Pickup Trick	LDT1-2										
Drill Rig (truck-mounted)	Drill Rig										
Hydro-seed Truck	T6 Instate Heavy										

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WRDA 2016
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Conceptual Construction Equipment Estimate

Project Phase		Utility Relocation		Levee Reconstruction after Completion of Cutoff Wall		Relief Well Installation		Site Restoration and Demobilization	
Equipment Description	CalEEMod/EMFAC Category	Maximum Quantity of Vehicles	Duration per vehicle (mths)	Maximum Quantity of Vehicles	Duration per vehicle (mths)	Maximum Quantity of Vehicles	Duration per vehicle (mths)	Maximum Quantity of Vehicles	Duration per vehicle (mths)
Equipment/supply Transport Trucks	HDT	1	2			1	6	1	2
Hydraulic Excavator	Excavator	1	2	2	4	1	6	1	2
Long-Stick Excavator	Excavator								
Front-end Loader	T/L/B	1	2	1	4			1	3
Bulldozer	Rubber Tired Dozer			4	4				
Highway Dump Truck	HDT	1	2	20	4				
Grader	Grader			2	4			1	3
Water Truck	HDT			2	4			1	3
Self-propelled Sheepsfoot or Tramping Roller	Roller			2	4				
Vibratory Smooth-Wheel Compactor	Roller			1	4				
Forklift	Forklift					1	6	1	3
DMM Rig	Drill Rig								
Bulk Material and Hydration Silos	none								
Truck-Mounted Crane	Crane	1	2						
Concrete Transit Truck	HDT	1	2			1	1		
Lubricating Truck	T7 Utility			1	16				
Pickup Trick	LDT1-2								
Drill Rig (truck-mounted)	Drill Rig					2	6		
Hydro-seed Truck	T6 Instate Heavy							1	3

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Conceptual Construction Equipment Estimate

Project Phase						
Equipment Description	**CalEEMod/EMFAC Category**	**Conservative Estimate Maximum Quantity of Vehicles for WRDA 2016 Seepage and Stability Contracts CalEEMod/EMFAC Categories**				
		Vegetation Encroachment Removal; Utility Reloation	**Berms, Toe Drains, Slope Flattening; Relief Wells**	**Mobilization; Cutoff Wall; Site Restoration and Demobilization**	**Vegetation Encroachment Removal**	**Berms, Toe Drains, Slope Flattening**
Equipment/supply Transport Trucks	HDT	1	1	5	0	1
Hydraulic Excavator	Excavator	1	1	2	1	1
Long-Stick Excavator	Excavator	0	0	3	0	0
Front-end Loader	T/L/B	1	1	3	1	1
Bulldozer	Rubber Tired Dozer	0	2	5	0	2
Highway Dump Truck	HDT	5	10	20	5	10
Grader	Grader	0	2	2	0	2
Water Truck	HDT	0	1	2	0	1
Self-propelled Sheepsfoot or Tramping Roller	Roller	0	2	2	0	2
Vibratory Smooth-Wheel Compactor	Roller	0	1	1	0	1
Forklift	Forklift	0	1	5	0	0
DMM Rig	Drill Rig	0	0	2	0	0
Bulk Material and Hydration Silos	none	0	0	8	0	0
Truck-Mounted Crane	Crane	1	0	2	0	0
Concrete Transit Truck	HDT	1	1	0	0	0
Lubricating Truck	T7 Utility	0	0	1	0	0
Pickup Trick	LDT1-2	0	0	0	0	0
Drill Rig (truck-mounted)	Drill Rig	0	2	0	0	0
Hydro-seed Truck	T6 Instate Heavy	0	0	1	0	0

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Conceptual Construction Equipment Estimate

Project Phase		Note: Maximum equipment estimates based on SREL 2016 65% design information have been doubled for input into the RCEM for WRDA (ARCF) 2016 to reflect the approximate doubling of material volumes.					
Equipment Description	**CalEEMod/EMFAC Category**	**RCEM Equipment Category**	**Conservative Estimate Maximum Quantity of Vehicles for WRDA 2016 Seepage and Stability Contracts RCEM Categories with On-Road Vehicles Removed**				
		Additional Equipment Added per Project Team	**Vegetation Encroachment Removal; Utility Reloation**	**Berms, Toe Drains, Slope Flattening; Relief Wells**	**Mobilization; Cutoff Wall; Site Restoration and Demobilization**	**Vegetation Encroachment Removal**	**Berms, Toe Drains, Slope Flattening**
Equipment/supply Transport Trucks	HDT						
Hydraulic Excavator	Excavator	Excavator	2	2	10	2	2
Long-Stick Excavator	Excavator						
Front-end Loader	T/L/B	Tractor/Loader/Backhoe	2	2	6	2	2
Bulldozer	Rubber Tired Dozer	Rubber Tired Dozer		4	10		4
Highway Dump Truck	HDT						
Grader	Grader	Grader		4	4		4
Water Truck	HDT	Water Truck		2	4		2
Self-propelled Sheepsfoot or Tramping Roller	Roller	Roller		6	6		6
Vibratory Smooth-Wheel Compactor	Roller						
Forklift	Forklift	Rough Terrain Forklift		2	10		
DMM Rig	Drill Rig	Bore/Drill Rigs		4	4		
Bulk Material and Hydration Silos	none	Other Material Handling			16		
Truck-Mounted Crane	Crane	Crane	2		4		
Concrete Transit Truck	HDT						
Lubricating Truck	T7 Utility						
Pickup Trick	LDT1-2	Generator Sets		1	1		1
Drill Rig (truck-mounted)	Drill Rig	Signal Boards	1	6	6	1	6
Hydro-seed Truck	T6 Instate Heavy	Sweeper	1	1	1	1	1

Attachment 4

Modeling Assumptions

Mitigation Sites

Supporting Calculations for Material Volumes, Equipment, and Quarterly Allocation of Emissions – Mitigation

The mitigation contract will establish a terrestrial mitigation site of Elderberry. Construction activities will include clearing and grubbing of the full site and installation of plantings, fencing, and irrigation. The initial assumption is for a 50-acre site. Construction is planned for 2023 and will be year around (emissions are assumed evenly distributed). Construction equipment assumptions were supplied by the U.S. Army Corp of Engineers, Sacramento Division based on previous similar projects.

Attachment 5

Roadway Construction Emissions Model

Input Assumptions

American River Erosion - Contract 1

Type	Material	Quantity	Unit	Miles per Trip
Export	soil, veg	1,100	CY	14
Import	rock	83,000	CY	50
Import	soil,veg	23,000	CY	5
Import	cobble	20,300	CY	50
Export	soil	135,000	CY	14

American River Erosion - Contract 2, per season

Type	Material	Quantity	Unit	Miles per Trip
Export	soil, veg	1,200	CY	14
Import	rock	584,600	CY	50
Import	soil, veg	117,800	CY	5

Sacramento River Erosion- Contract 1

Type	Material	Quantity	Unit	Miles per Trip	Barge Miles in BAAQMD
Export	soil, veg	93	CY	20	
Import	soil, veg	1,100	CY	5	
Barge	rip rap	23,000	CY	45	50.4

Sacramento River Erosion- Contracts 2 - 3, per contract, per season

Type	Material	Quantity	Unit	Miles per Trip	Barge Miles in BAAQMD
Export	soil, veg	550	CY	20	
Import	soil, veg	6,803	CY	5	
Barge	rip rap	141,683	CY	45	50.4

Sacramento Weir

Type	Material	Quantity	Unit	Miles per Trip	Barge Miles in BAAQMD
Export	soil and veg.	20,000	CY	0.6	
Import	soil	370,000	CY	30	
Import	concrete	8,000	CY	30	
Import	concrete	21,300	CY	30	
Import	asphalt	1,750	CY	30	
Import	road base	15,000	CY	30	
Import	aggregate, fill	4,500	CY	30	
Export	soil	43,000	CY	0.6	
Import	aggregate, fill	5,150	CY	30	
Export	soil	585,000	CY	0.6	
Import	rip rap	-	CY	40	
Import	rip rap	-	CY	40	
Export	soil	54,000	CY	0.6	
Import	rock	1,700	CY	30	
Import	gravel	250	CY	30	
Barge	rip rap	25,000	CY	57.4	45
Barge	rip rap	75,000	CY	57.4	45

Magpie Creek

Type	Material	Quantity	Unit	Miles per Trip
Import	soil	5,940	CY	50
Import	soil	13,200	CY	50
Import	aggregate	59,400	CY	50
Import	concrete	29,700	CY	50
Export	soil	9,900	CY	20
Import	stone	100,000	CY	50

SREL

Type	Material	Quantity	Unit	Miles per Trip
Import	misc. material - mobilization	2,565	CY	15
Export	offsite disposal - veg	2,565	CY	13
Import	type 1,2 fill - berm	40,015	CY	13
Import	stockpile - berm	21,375	CY	30
Import	offsite quarry -berm	13,304	CY	13
Export	offsite disposal - berm	19,494	CY	13
Export	offsite disposal - utility	51	CY	13
Import	type 1,2 fill - cutoff walls	367,656	CY	13
Import	stockpile - cutoff walls	360,302	CY	30
Import	offsite quarry - cutoff walls	15,613	CY	13
Export	offsite disposal - cutoff walls	14,929	CY	13
Import	misc. material - cutoff walls	12,398	CY	4.5
Import	stockpile - relief wells	33	CY	30
Import	offsite quarry - relief wells	109	CY	13
Export	offsite disposal - relief wells	73	CY	13
Import	misc. material - relief wells	122	CY	6.5
Import	misc. material - site restoration	1,283	CY	15
Import	misc. material - demobilization	2,565	CY	15

Mitigation

Type	Material	Quantity	Unit	Miles per Trip
Export	soil, veg	800	CY	10
Export	soil	12,000	CY	10

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Basic Project Model Assumptions

Project Name [1] *:*	American River Erosion Contract 1		*Assumed Mitigation:*	On-Road	2010 and Newer On-Road Vehicle Fleet
Modeled As:	Other Linear Project			Off-Road	Tier 4 Equipment
Predominant Soil Type:	Weathered Rock Earth				90% of HP as Tier 4 Equipment
Project Length:	12,700	feet	2.4 *miles*		
Project Width:	100	feet			
Project Area:	29	acres	*Note:*	[1] Contract 1 is only Reach 2	
Maximum Area Disturbed/Day:	5	acres		[2] 0.3 monts for clearing/ grubbing and 3 months for grading/excavating	
Water Trucks Used:	Yes			Expect one active construction site.	
Total Working Days in a Month:	22				
Months Worked each Year:					
2020	3	Months[2]			
2021	0	Months			
2022	0	Months			
2023	0	Months			
Haul Truck Capacity:	15	CY			
User Override Equipment:	10	Hours/Day			

Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips/day (one way and round)	No. of Employees
2020	Clearing and Grubbing	Grubbing/ Clearing	0	167	soil, vegetation	0	14	28	11	40
2020	Rock RipRap	Grading/ Excavation	1,258	0	rock	50	0	100	84	75
2020	Top Soil (Planting Bench)	Grading/ Excavation	348	0	soil, vegetation	5	0	10	23	30
2020	Cobble	Grading/ Excavation	308	0	cobble	50	0	100	22	75
2020	Excavation and Offhaul	Grading/ Excavation	0	2045	soil	0	14	28	136	75
2020	**All**	**Grubbing/ Clearing**	**0**	**167**	**Soil**			**28**		**40**
2020	**All**	**Grading/ Excavation**	**1914**	**2045**	**Soil**			**61**		**75**

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

	No. of Equipment	
Equipment	Grubbing/ Clearing 2020	Grading/ Excavating 2020
Aerial Lifts	0	0
Air Compressors	0	0
Bore/Drill Rigs	0	0
Cement and Mortar Mixers	0	0
Concrete/Industrial Saws	0	0
Cranes	0	2
Crawler Tractors	0	0
Crushing/Proc. Equipment	0	0
Excavators	6	2
Forklifts	0	0
Generator Sets	1	1
Graders	0	2
Off-Highway Tractors	0	0
Off-Highway Trucks	0	2
Other Construction Equipment	0	1
Other General Industrial Equipment	0	2
Other Material Handling Equipment	0	1
Pavers	0	0
Paving Equipment	0	0
Plate Compactors	0	0
Pressure Washers	0	0
Pumps	0	0
Rollers	0	0
Rough Terrain Forklifts	0	0
Rubber Tired Dozers	0	2
Rubber Tired Loaders	0	0
Scrapers	0	0
Signal Boards	6	6
Skid Steer Loaders	0	3
Surfacing Equipment	0	0
Sweepers/Scrubbers	1	1
Tractors/Loaders/Backhoes	0	2
Trenchers	0	2
Welders	0	0

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Sacramento Supplemental Projects General Conformity Analysis

Roadway Construction Emissions Model (RCEM) Input Assumptions

Basic Project Model Assumptions

Project Name:	American River Erosion Contract 2		*Assumed Mitigation:*	On-Road	2010 and Newer On-Road Vehicle Fleet
Modeled As:	Other Linear Project			Off-Road	Tier 4 Equipment
Predominant Soil Type:	Weathered Rock Earth				90% of HP as Tier 4 Equipment
Project Length:	32,200	feet	6.1 miles per season		
Project Width:	100	feet			
Project Area:	74	acres	Note:	[1]0.3 months for clearing/ grubbing and 3 months for grading/excavating	
Maximum Area Disturbed/Day:	5	acres			
Water Trucks Used:	Yes			[2]Material volumes are per season, assumed equal for both seasons	
Total Working Days in a Month:	22			Expect five active construction sites operating concurrently.	
Months Worked each Year:					
2020	0	Months			
2021	3	Months[1]			
2022	3	Months			
2023	0	Months			
Haul Truck Capacity:	15	CY			
User Override Equipment:	10	Hours/Day			

Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips /day (one way round)	No. of Employees
2021	Clearing and Grubbing[2]	Grubbing/ Clearing	0	182	soil, vegetation	0	14	28	12	**40**
2021	Rock RipRap[2]	Grading/ Excavation	8,858	0	rock	50	0	100	591	**75**
2021	Top Soil (Planting Bench)[2]	Grading/ Excavation	1785	0	soil, vegetation	5	0	10	119	**30**
2021	**All**	**Grubbing/ Clearing**	**0**	**182**	**Soil**			**28**		**40**
2021	**All**	**Grading/ Excavation**	**10642**	**0**	**Soil**			**85**		**75**

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

Equipment	No. of Equipment	
	Grubbing/ Clearing 2021[2]	Grading/ Excavating 2021[2]
Aerial Lifts	0	0
Air Compressors	0	0
Bore/Drill Rigs	0	0
Cement and Mortar Mixers	0	0
Concrete/Industrial Saws	0	0
Cranes	0	6
Crawler Tractors	0	0
Crushing/Proc. Equipment	0	0
Excavators	6	6
Forklifts	0	0
Generator Sets	1	3
Graders	0	4
Off-Highway Tractors	0	0
Off-Highway Trucks	0	6
Other Construction Equipment	0	1
Other General Industrial Equipment	0	2
Other Material Handling Equipment[5]	0	1
Pavers	0	0
Paving Equipment	0	0
Plate Compactors	0	0
Pressure Washers	0	0
Pumps	0	0
Rollers	0	0
Rough Terrain Forklifts	0	0
Rubber Tired Dozers	0	6
Rubber Tired Loaders	0	4
Scrapers	0	0
Signal Boards	6	6
Skid Steer Loaders	0	3
Surfacing Equipment	0	0
Sweepers/Scrubbers	1	1
Tractors/Loaders/Backhoes	0	3
Trenchers	0	2
Welders	0	0

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Basic Project Model Assumptions

Project Name:	Sac River Erosion Contract 1		*Assumed Mitigation:*	On-Road	2010 and Newer On-Road Vehicle Fleet
Modeled As:	Other Linear Project			Off-Road	Tier 4 Equipment
Predominant Soil Type:	Weathered Rock Earth				90% of HP as Tier 4 Equipment
Project Length:	1,150	feet	0.22 *miles*		
Project Width:	80	feet			
Project Area (acres):	2	acres	*Note:*	[1] 0.3 months for clearing/ grubbing and 4 months for grading/excavating	
Maximum Area Disturbed/Day:	2	acres		[2] Reach 55.2 L is 1150 feet long	
Water Trucks Used:	Yes			Expect one active construction site.	
Total Working in Month:	22	days			
Months Worked each Year:					
2020	4	Months[1]			
2021	0	Months			
2022	0	Months			
2023	0	Months			
Haul Truck Capacity:	15	CY			
User Override Equipment:	10	Hours/Day			

Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips/day (one way and round)	No. of Employees
2020	Site Prep. (Soil export) - C1	Grubbing/ Clearing	0	14	soil and veg.	0	20	40	1	25
2020	Hydroseed/Add soil to Rock - C1	Grading/ Excavation	13		soil and veg.	5	0	10	1	40
2020	**All**	**Grubbing/ Clearing**	**0**	**14**	**Soil**			**40**		**25**
2020	**All**	**Grading/ Excavation**	**13**	**0**	**Soil**			**10**		**40**

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

	No. of Equipment	
Equipment	Grubbing/ Clearing Phase	Grading/ Excavating
Aerial Lifts	0	0
Air Compressors	0	0
Bore/Drill Rigs	0	0
Cement and Mortar Mixers	0	0
Concrete/Industrial Saws	0	0
Cranes	0	2
Crawler Tractors	0	0
Crushing/Proc. Equipment	0	0
Excavators	6	2
Forklifts	0	0
Generator Sets	1	1
Graders	0	2
Off-Highway Tractors	0	0
Off-Highway Trucks	0	2
Other Construction Equipment	0	1
Other General Industrial Equipment	0	2
Other Material Handling Equipment	0	1
Pavers	0	0
Paving Equipment	0	0
Plate Compactors	0	0
Pressure Washers	0	0
Pumps	0	0
Rollers	0	0
Rough Terrain Forklifts	0	0
Rubber Tired Dozers	0	2
Rubber Tired Loaders	0	0
Scrapers	0	0
Signal Boards	6	6
Skid Steer Loaders	0	3
Surfacing Equipment	0	0
Sweepers/Scrubbers	1	1
Tractors/Loaders/Backhoes	0	2
Trenchers	0	2
Welders	0	0

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Basic Project Model Assumptions

Project Name:	Sac River Erosion Contracts 2 and 3		*Assumed Mitigation:*	On-Road	2010 and Newer On-Road Vehicle Fleet
Modeled As:	Other Linear Project			Off-Road	Tier 4 Equipment
Predominant Soil Type:	Weathered Rock Earth				90% of HP as Tier 4 Equipment
Project Length:	7,113	feet	1.3	miles each year, each contract	
Project Width:	80	feet			
Project Area (acres):	13	acres	*Note:*	[1] 0.3 months for clearing/ grubbing and 4 months for grading/excavating	
Maximum Area Disturbed/Day:	5	acres		[2] Material Volumes are per contract, per year	
Water Trucks Used:	Yes			Expect four active construction sites operating concurrently.	
Total Working in Month:	22	days			
Months Worked each Year:					
2020	0	Months[1]			
2021	4	Months[1]			
2022	4	Months[1]			
2023	0	Months[1]			
Haul Truck Capacity:	15	CY			
User Override Equipment:	10	Hours/Day			

Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips/day (one way and round)	No. of Employees
2021	Site Prep. (Soil export) - C1	Grubbing/ Clearing	0	83	soil and veg.	0	20	40	6	25
2021	Hydroseed/Add soil to Rock - C1	Grading/ Excavation	77		soil and veg.	5	0	10	5	55
2021	**All**	**Grubbing/ Clearing**	**0**	**83**	**Soil**			**40**		**25**
2021	**All**	**Grading/ Excavation**	**77**	**0**	**Soil**			**10**		**55**

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

Equipment	No. of Equipment	
	Grubbing/ Clearing 2021[2]	Grading/ Excavating 2021[2]
Aerial Lifts	0	0
Air Compressors	0	0
Bore/Drill Rigs	0	0
Cement and Mortar Mixers	0	0
Concrete/Industrial Saws	0	0
Cranes	0	4
Crawler Tractors	0	0
Crushing/Proc. Equipment	0	0
Excavators	6	4
Forklifts	0	0
Generator Sets	1	1
Graders	0	2
Off-Highway Tractors	0	0
Off-Highway Trucks	0	4
Other Construction Equipment	0	1
Other General Industrial Equipment	0	2
Other Material Handling Equipment	0	1
Pavers	0	0
Paving Equipment	0	0
Plate Compactors	0	0
Pressure Washers	0	0
Pumps	0	0
Rollers	0	0
Rough Terrain Forklifts	0	0
Rubber Tired Dozers	0	4
Rubber Tired Loaders	0	0
Scrapers	0	0
Signal Boards	6	6
Skid Steer Loaders	0	4
Surfacing Equipment	0	0
Sweepers/Scrubbers	1	1
Tractors/Loaders/Backhoes	0	2
Trenchers	0	2
Welders	0	0

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Basic Project Model Assumptions

Project Name:	Sacramento Weir Widening	Case 1	*Assumed Mitigation:*	On-Road	2010 and Newer On-Road Vehicle Fleet
Modeled As:	Other Linear Project			Off-Road	Tier 4 Equipment
Predominant Soil Type:	Weathered Rock Earth				90% of HP as Tier 4 Equipment
Project Length:	7,000 feet	1.3 miles			
Project Width:	3,000 feet		*Note:*	[1] fish passage channel = 200 acres; remaining project area	
Project Area (acres) [1] *:*	482 acres			= 285 acres	
Maximum Area Disturbed/Day:	40 acres			[2] 0.8 months for clearing/ grubbing and	
Water Trucks Used:	Yes			8 months for grading/excavating	
Total Working in Month:	22 days				
Months Worked each Year:					
2020	0 Months				
2021	8 Months[2]				
2022	12 Months				
2023	10 Months				
Haul Truck Capacity:	15 CY				
User Override Equipment:	10 Hours/Day				

Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips/day (one way and round)	No. of Employees
2021	Site Prep. (Excavating Vegetation)	Grubbing/ Clearing	0	1,136	soil and veg.	0	0.6	1.2	76	40
2021	Complete Constr. of North Levee - Import Material	Grading/ Excavation	2102	0	soil	30	0	60	140	75
2021	Complete Constr. of North Levee - Concrete Slope Protection	Grading/ Excavation	45	0	concrete	30	0	60	3	75
2021	Island Rock Rip Rap	Grading/ Excavation	0	0	rip rap	40	0	1.2	0	75
2022	Construct Passive Weir Structure	Grading/ Excavation	81	0	concrete	30	0	60	6	75
2022	Temp. Rd, Rd 126, and River Road - asphalt	Grading/ Excavation	7	0	asphalt	30	0	60	0	75
2022	Temp. Rd, Rd. 126, and River Road - road base	Grading/ Excavation	57	0	road base	30	0	60	4	75
2022	Railroad Bridge	Grading/ Excavation	17	163	aggregate, fill	30	0.6	61.2	12	75
2022	River Road Bridge	Grading/ Excavation	20	0	aggregate, fill	30	0	60	2	75
2023	Degrade old levees	Grading/ Excavation	0	2659	soil, veg.	0	0.6	1.2	177	40
2023	Sac River Rock/ Rip Rap	Grading/ Excavation	0	0	rip rap	40	0	1.2	0	75
2023	Fish Passage Channel Excavate	Grading/ Excavation	0	245	concrete	0	0.6	1.2	16	75
2023	Fish Passage Rock Liner	Grading/ Excavation	8	0	rock	30	0	60	1	75
2023	Fish Passage Maintenance Rd	Grading/ Excavation	1	0	gravel	30	0	60	0	75
2021	**All**	**Grubbing/ Clearing**	**0**	**1136**	**Soil**			**1.2**		**40**
2021	**All**	**Grading/ Excavation**	**2148**	**0**	**Soil**			**60.0**		**75**
2022	**All**	**Grading/ Excavation**	**181**	**163**	**Asphalt/Soil**			**60.6**		**75**
2023	**All**	**Grading/ Excavation**	**9**	**2905**	**Soil**			**1.4**		**75**

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

	No. of Equipment			
Equipment	Grubbing/Clearing Phase 2021	Grading/ Excavating 2021	Grading/ Excavating 2022	Grading/ Excavating 2023
Aerial Lifts	0	0	0	0
Air Compressors	0	0	0	0
Bore/Drill Rigs	0	1	0	0
Cement and Mortar Mixers	0	4	4	2
Concrete/Industrial Saws	0	0	0	0
Cranes	0	4	4	2
Crawler Tractors	0	0	0	0
Crushing/Proc. Equipment	0	0	0	0
Excavators	3	3	3	3
Forklifts	0	0	0	0
Generator Sets	1	2	2	2
Graders	0	0	1	1
Off-Highway Tractors	0	0	0	0
Off-Highway Trucks	5	5	5	5
Other Construction Equipment	0	1	1	1
Other General Industrial Equipment	0	0	0	0
Other Material Handling Equipment	0	0	1	1
Pavers	0	0	0	0
Paving Equipment	0	0	1	1
Plate Compactors	0	0	0	0
Pressure Washers	0	0	0	0
Pumps	0	2	1	1
Rollers	0	0	0	0
Rough Terrain Forklifts	0	0	0	0
Rubber Tired Dozers	0	0	1	1
Rubber Tired Loaders	0	0	0	0
Scrapers	0	0	1	1
Signal Boards	0	0	0	0
Skid Steer Loaders	0	0	0	0
Surfacing Equipment	0	0	1	1
Sweepers/Scrubbers	0	1	1	1
Tractors/Loaders/Backhoes	0	2	2	2
Trenchers	0	1	1	1
Welders	0	0	0	0

SAFCA/ USACE
Sacramento Supplemental Projects General Conformity Analysis
Roadway Construction Emissions Model (RCEM) Input Assumptions

Basic Project Model Assumptions

Project Name:	Sacramento Weir Widening	Case 2	
Modeled As:	Other Linear Project		
Predominant Soil Type:	Weathered Rock Earth		
Project Length:	7,000	feet	
Project Width:	3,000	feet	
Project Area (acres)[1]*:*	482	acres	
Maximum Area Disturbed/Day:	40	acres	
Water Trucks Used:	Yes		
Total Working in Month:	22	days	
Months Worked each Year:			
2020	0	Months	
2021	8	Months[2]	
2022	12	Months	
2023	10	Months	
Haul Truck Capacity:	15	CY	
User Override Equipment:	10	Hours/Day	

Assumed Mitigation:	On-Road	2010 and Newer On-Road Vehicle Fleet
	Off-Road	Tier 4 Equipment
		90% of HP as Tier 4 Equipment

Note:
[1] fish passage channel = 200 acres; remaining project area = 285 acres

[2] 0.8 months for clearing/ grubbing and 8 months for grading/excavating

Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips/day (one way and round)	No. of Employees
2021	Site Prep. (Excavating Vegetation)	Grubbing/ Clearing	0	1,136	soil and veg.	0	0.6	1.2	76	40
2021	Complete Constr. of North Levee - Import Material	Grading/ Excavation	2102	0	soil	30	0	60	140	75
2021	Complete Constr. of North Levee - Concrete Slope	Grading/ Excavation	45	0	concrete	30	0	60	3	75
2021	Island Rock Rip Rap	Grading/ Excavation	0	0	rip rap	40	0	1.2	0	75
2022	Construct Passive Weir Structure	Grading/ Excavation	81	0	concrete, asphalt	30	0	60	6	75
2022	Temp. Rd, Rd 126, and River Road - asphalt	Grading/ Excavation	7	0	asphalt	30	0	60	0	75
2022	Temp. Rd, Rd. 126, and River Road - road base	Grading/ Excavation	57	0	road base	30	0	60	4	75
2021	Railroad Bridge	Grading/ Excavation	26	244	aggregate, fill	30	0.6	61.2	18	75
2022	River Road Bridge	Grading/ Excavation	20	0	aggregate, fill	30	0	60	2	75
2023	Degrade old levees	Grading/ Excavation	0	2659	soil, veg.	0	0.6	1.2	177	40
2023	Sac River Rock/ Rip Rap	Grading/ Excavation	0	0	rip rap	40	0	1.2	0	75
2023	Fish Passage Channel Excavate	Grading/ Excavation	0	245	concrete	0	0.6	1.2	16	75
2023	Fish Passage Rock Liner	Grading/ Excavation	8	0	rock	30	0	60	1	75
2023	Fish Passage Maintenance Rd	Grading/ Excavation	1	0	gravel	30	0	60	0	75
2021	**All**	**Grubbing/ Clearing**	**0**	**1136**	**Soil**			**1.2**		**40**
2021	**All**	**Grading/ Excavation**	**2173**	**244**	**Soil**			**60.1**		**75**
2022	**All**	**Grading/ Excavation**	**164**	**0**	**Soil/Asphalt**			**60.0**		**75**
2023	**All**	**Grading/ Excavation**	**9**	**2905**	**Soil**			**1.4**		**75**

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Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

	No. of Equipment			
Equipment	Grubbing/Clearing Phase 2021	Grading/ Excavating 2021	Grading/ Excavating 2022	Grading/ Excavating 2023
Aerial Lifts	0	0	0	0
Air Compressors	0	0	0	0
Bore/Drill Rigs	0	1	0	0
Cement and Mortar Mixers	0	4	4	2
Concrete/Industrial Saws	0	0	0	0
Cranes	0	4	4	2
Crawler Tractors	0	0	0	0
Crushing/Proc. Equipment	0	0	0	0
Excavators	3	3	3	3
Forklifts	0	0	0	0
Generator Sets	1	2	2	2
Graders	0	0	1	1
Off-Highway Tractors	0	0	0	0
Off-Highway Trucks	5	5	5	5
Other Construction Equipment	0	1	1	1
Other General Industrial Equipment	0	0	0	0
Other Material Handling Equipment	0	0	1	1
Pavers	0	0	0	0
Paving Equipment	0	0	1	1
Plate Compactors	0	0	0	0
Pressure Washers	0	0	0	0
Pumps	0	2	1	1
Rollers	0	0	0	0
Rough Terrain Forklifts	0	0	0	0
Rubber Tired Dozers	0	0	1	1
Rubber Tired Loaders	0	0	0	0
Scrapers	0	0	1	1
Signal Boards	0	0	0	0
Skid Steer Loaders	0	0	0	0
Surfacing Equipment	0	0	1	1
Sweepers/Scrubbers	0	1	1	1
Tractors/Loaders/Backhoes	0	2	2	2
Trenchers	0	1	1	1
Welders	0	0	0	0

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Basic Project Model Assumptions				*Assume berms split as follows:*			*Calculated Construction Months:*				
Project Name:	Seepage and Stability					2020	24%	4			
Modeled As:	Other Linear Project					2021	32%	4			
Predominant Soil Type:	Weathered Rock Earth					2023	32%	4			
Project Length:	44158	feet		*Allocated Cut Off Walls as follows:*							
Project Width:	200	feet			Contract 1	2020	34%	6.4			
Project Area (acres):	203	acres[1]			Contract 2	2021	29%	5.3			
Maximum Area Disturbed/Day:	5	acres[1]			Contract 3	2022	30%	5.6			
Water Trucks Used:	Yes				Contract 4	2023	7%	1.2			
Total Working in Month:	22	days		*Assume mobilization split:*							
Months Worked each Year:						2020	30%	1			
2020	7.8	Months[2]				2021	20%	1			
2021	7.2	Months[3]				2022	20%	1			
2022	7	Months[4]				2023	30%	1			
2023	4	Months		*Relief Well*[5] *:*	10%			3			
Haul Truck Capacity (CY):	15	CY		*Percent Acre Disturbed:*							
Employee 1-way distance:	20	miles				2020	36%				
Employee 1-way trip:	2	per day				2021	36%				
User Override Equipment:	10	Hours/Day				2022	14%				
Assumed Mitigation:	On-Road	2010 and Newer On-Road Vehicle Fleet				2023	14%				
	Off-Road	Tier 4 Equipment		*Vegetation Removal/Utility Relocation*				1			
		90% of HP as Tier 4 Equipment		*Site Restoration*				0.75			
				Demobilization				0.5			
Note:	[1] Total acres/LF for all 4 years										
	[2] Total Months (CO Walls, Mob, Demob, VR, Restoration; assumes berms and wells are concurrent at 4 months)										
	[3] Total Months (CO Walls, Mob, Demob, VR, Restoration; assumes berms are concurrent at 4 months)										
	[4] Total Months (CO Walls, Mob, Demob, VR, Restoration)										
	[5] 2016 design had 42 relief wells, current design has 4										

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Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips/day (one way and round)	No. of Employees
2020	Mobilization	Grading/ Excavation	35	0	misc.	15	0	30	2	
2020	Vegetation/Encroachment Removal	Grubbing/ Clearing	0	40	soil and veg.	0	13	26	3	
2020	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	109	0	Type 1,2 Fill	13	0	26	7	
2020	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	58	0	stockpile	30	0	60	4	
2020	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	36	0	offsite quarry	13	0	26	2	
2020	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	0	53	offsite disposal	0	13	26	4	
2020	Utility	Grubbing/ Clearing	0	1	offsite disposal	13	0	26	0	
2020	Cutoff Walls	Grading/ Excavation	888	0	Type 1,2 Fill	13	0	26	59	
2020	Cutoff Walls	Grading/ Excavation	870	0	stockpile	30	0	60	58	
2020	Cutoff Walls	Grading/ Excavation	38	0	offsite quarry	13	0	26	3	
2020	Cutoff Walls	Grading/ Excavation	0	36	offsite disposal	0	13	26	2	
2020	Cutoff Walls	Grading/ Excavation	30	0	misc.	5	0	9	2	
2020	Relief Wells	Grading/ Excavation - Break 1	0.5	0	stockpile	30	0	60	0	
2020	Relief Wells	Grading/ Excavation - Break 1	2	0	offsite quarry	13	0	26	0	
2020	Relief Wells	Grading/ Excavation - Break 1	0	1	offsite disposal	0	13	26	0	
2020	Relief Wells	Grading/ Excavation - Break 1	2	0	misc.	7	0	13	0	
2020	Site Restoration	Grading/ Excavation	28	0	misc.	15	0	30	2	
2020	Demobilization	Grading/ Excavation	70	0	misc.	15	0	30	5	
2021	Mobilization	Grading/ Excavation	23	0	misc.	15	0	30	2	
2021	Vegetation/Encroachment Removal	Grubbing/ Clearing	0	34	soil, veg.	0	13	26	2	
2021	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	146	0	Type 1,2 Fill	13	0	26	10	
2021	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	78	0	stockpile	30	0	60	5	
2021	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	48	0	offsite quarry	13	0	26	3	
2021	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	0	71	offsite disposal	0	13	26	5	
2021	Utility	Grubbing/ Clearing	0	1	offsite disposal	13	0	26	0	
2021	Cutoff Walls	Grading/ Excavation	914	0	Type 1,2 Fill	13	0	26	61	
2021	Cutoff Walls	Grading/ Excavation	896	0	stockpile	30	0	60	60	
2021	Cutoff Walls	Grading/ Excavation	39	0	offsite quarry	13	0	26	3	
2021	Cutoff Walls	Grading/ Excavation	0	37	offsite disposal	0	13	26	2	
2021	Cutoff Walls	Grading/ Excavation	31	0	misc.	5	0	9	2	
2021	Site Restoration	Grading/ Excavation	28	0	misc.	15	0	30	2	
2021	Demobilization	Grading/ Excavation	47	0	misc.	15	0	30	3	
2022	Mobilization	Grading/ Excavation	23	0	misc.	15	0	30	2	
2022	Vegetation/Encroachment Removal	Grubbing/ Clearing	0	35	misc.	0	13	26	2	
2022	Cutoff Walls	Grading/ Excavation	895	0	Type 1,2 Fill	13	0	26	60	
2022	Cutoff Walls	Grading/ Excavation	877	0	stockpile	30	0	60	58	
2022	Cutoff Walls	Grading/ Excavation	38	0	offsite quarry	13	0	26	3	
2022	Cutoff Walls	Grading/ Excavation	0	36	offsite disposal	0	13	26	2	
2022	Cutoff Walls	Grading/ Excavation	30	0	misc.	5	0	9	2	
2022	Site Restoration	Grading/ Excavation	11	0	misc.	15	0	30	1	
2022	Demobilization	Grading/ Excavation	47	0	misc.	15	0	30	3	
2023	Mobilization	Grading/ Excavation	35	0	misc.	15	0	30	2	
2023	Vegetation/Encroachment Removal	Grubbing/ Clearing	0	8	soil and veg.	0	13	26	1	
2023	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	146	0	Type 1,2 Fill	13	0	26	10	
2023	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	78	0	stockpile	30	0	60	5	
2023	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	48	0	offsite quarry	13	0	26	3	
2023	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	0	71	offsite disposal	0	13	26	5	
2023	Utility	Grubbing/ Clearing	0	1	offsite disposal	13	0	26	0	
2023	Cutoff Walls	Grading/ Excavation	933	0	Type 1,2 Fill	13	0	26	62	
2023	Cutoff Walls	Grading/ Excavation	914	0	stockpile	30	0	60	61	
2023	Cutoff Walls	Grading/ Excavation	40	0	offsite quarry	13	0	26	3	
2023	Cutoff Walls	Grading/ Excavation	0	38	offsite disposal	0	13	26	3	
2023	Cutoff Walls	Grading/ Excavation	31	0	misc.	5	0	9	2	
2023	Site Restoration	Grading/ Excavation	11	0	misc.	15	0	30	1	
2023	Demobilization	Grading/ Excavation	70	0	misc.	15	0	30	5	

2020	Vegetation/Encroachment Removal; Utility Relocation	Grubbing/ Clearing	0	40				26		14	
2020	Berms, Toe Drains, Slope Flattening; Relief Wells	Grading/ Excavation - Break 1	208	54				34		45	
2020	Mobilization; Cutoff Wall, Site Restoration; Demobilization	Grading/ Excavation	1958	36				41		100	
2021	Vegetation/Encroachment Removal; Utility Relocation	Grubbing/ Clearing	0	35				26		14	
2021	Berms, Toe Drains, Slope Flattening	Grading/ Excavation - Break 1	272	71				34		30	
2021	Mobilization; Cutoff Wall, Site Restoration; Demobilization	Grading/ Excavation	1978	37				41		100	
2022	Vegetation/Encroachment Removal	Grubbing/ Clearing	0	35				26		14	
2022	Mobilization; Cutoff Wall, Site Restoration; Demobilization	Grading/ Excavation	1922	36				41		100	
2023	Vegetation/Encroachment Removal; Utility Relocation	Grubbing/ Clearing	0	9				26		14	
2023	Berms, Toe Drains, Slope Flattening; Relief Wells	Grading/ Excavation - Break 1	272	71				34		30	
2023	Mobilization; Cutoff Wall, Site Restoration; Demobilization	Grading/ Excavation	2034	38				41		100	

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Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

	No. of Equipment										
Equipment	**Grubbing/ Clearing** *(Vegetation/Encroachment Removal; Utility Relocation)* **2020**	**Grading/ Excavating** *(Mobilization; Cutoff Wall, Site Restoration; Demobilization)* **2020**	**Grading/ Excavating Break 1** *(Berms, Toe Drains, Slope Flattening; Relief Wells)* **2020**	**Grubbing/ Clearing** *(Vegetation/Encroachment Removal; Utility Relocation)* **2021**	**Grading/ Excavating** *(Mobilization; Cutoff Wall, Site Restoration; Demobilization)* **2021**	**Grading/ Excavating Break 1** *(Berms, Toe Drains, Slope Flattening)* **2021**	**Grubbing/ Clearing** *(Vegetation/Encroachment Removal)* **2022**	**Grading/ Excavating** *(Mobiliza tion; Cutoff Wall, Site Restoration, Demobiliza tion)* **2022**	**Grubbing/ Clearing** *(Vegetation/Encroach-ment Removal; Utility Relocation)* **2023**	**Grading/ Excavating** *(Mobiliza tion; Cutoff Wall, Site Restoration; Demobiliza tion)* **2023**	**Grading/ Excavating Break 1** *(Berms, Toe Drains, Slope Flattening)* **2023**
Aerial Lifts	0	0	0	0	0	0	0	0	0	0	0
Air Compressors	0	0	0	0	0	0	0	0	0	0	0
Bore/Drill Rigs	0	4	4	0	4	0	0	4	0	4	0
Cement and Mortar Mixers	0	0	0	0	0	0	0	0	0	0	0
Concrete/Industrial Saws	0	0	0	0	0	0	0	0	0	0	0
Cranes	2	4	0	2	4	0	0	4	2	4	0
Crawler Tractors	0	0	0	0	0	0	0	0	0	0	0
Crushing/Proc. Equipment	0	0	0	0	0	0	0	0	0	0	0
Excavators	2	10	2	2	10	2	2	10	2	10	2
Forklifts	0	0	0	0	0	0	0	0	0	0	0
Generator Sets	0	1	1	0	1	1	0	1	0	1	1
Graders	0	4	4	0	4	4	0	4	0	4	4
Off-Highway Tractors	0	0	0	0	0	0	0	0	0	0	0
Off-Highway Trucks	0	0	0	0	0	0	0	0	0	0	0
Other Construction Equipment	0	0	0	0	0	0	0	0	0	0	0
Other General Industrial Equipment	0	0	0	0	0	0	0	0	0	0	0
Other Material Handling Equipment	0	16	0	0	16	0	0	16	0	16	0
Pavers	0	0	0	0	0	0	0	0	0	0	0
Paving Equipment	0	0	0	0	0	0	0	0	0	0	0
Plate Compactors	0	0	0	0	0	0	0	0	0	0	0
Pressure Washers	0	0	0	0	0	0	0	0	0	0	0
Pumps	0	0	0	0	0	0	0	0	0	0	0
Rollers	0	6	6	0	6	6	0	6	0	6	6
Rough Terrain Forklifts	0	10	2	0	10	0	0	10	0	10	0
Rubber Tired Dozers	0	10	4	0	10	4	0	10	0	10	4
Rubber Tired Loaders	0	0	0	0	0	0	0	0	0	0	0
Scrapers	0	0	0	0	0	0	0	0	0	0	0
Signal Boards	1	6	6	1	6	6	1	6	1	6	6
Skid Steer Loaders	0	0	0	0	0	0	0	0	0	0	0
Surfacing Equipment	0	0	0	0	0	0	0	0	0	0	0
Sweepers/Scrubbers	1	1	1	1	1	1	1	1	1	1	1
Tractors/Loaders/Backhoes	2	6	2	2	6	2	2	6	2	6	2
Trenchers	0	0	0	0	0	0	0	0	0	0	0
Welders	0	0	0	0	0	0	0	0	0	0	0

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Basic Project Model Assumptions

Project Name:	Magpie Creek			*Assumed Mitigation:*		
Modeled As:	Other Linear Project				On-Road	2010 and Newer On-Road Vehicle Fleet
Predominant Soil Type:	Weathered Rock Earth				Off-Road	Tier 4 Equipment
Project Length:		3,100 feet	0.59 miles			90% of HP as Tier 4 Equipment
Project Width:		59 feet				
Project Area (acres):		4 acres				
Maximum Area Disturbed/Day:		1 acres				
Water Trucks Used:		Yes				
Total Working in Month:		22 days				
Months Worked each Year:						
2020		0 Months				
2021		0 Months				
2022		3 Months				
2023		0 Months				
Haul Truck Capacity:		15 CY				
User Override Equipment:		10 Hours/Day				

Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips/day (one way and round)	No. of Employees
2022	Levee Raise	Grading/ Excavation	90	0	soil	50	0	100	6	40
2022	New Levees	Grading/ Excavation	200	0	soil	50	0	100	13	75
2022	Channel Improvement	Grading/ Excavation	0	150	soil	0	20	40	10	75
2022	Bank Protection	Grading/ Excavation	1515	0	stone	50	0	100	101	75
2022	Maintenance Roads	Grading/ Excavation	900	0	aggregate	50	0	100	60	75
2022	Culvert	Grading/ Excavation	450	0	concrete	50	0	100	31	75
2022	**All**	**Grading/ Excavation**	**2705**	**150**	**Soil**			**97**		**75**
2022	**All**	**Grading/ Excavation**	**450**	**0**	**Asphalt**			**100**		**75**

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Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

Equipment	No. of Equipment Grading/Excavating
Aerial Lifts	0
Air Compressors	0
Bore/Drill Rigs	0
Cement and Mortar Mixers	1
Concrete/Industrial Saws	0
Cranes	1
Crawler Tractors	0
Crushing/Proc. Equipment	0
Excavators	2
Forklifts	0
Generator Sets	1
Graders	1
Off-Highway Tractors	0
Off-Highway Trucks	2
Other Construction Equipment	2
Other General Industrial Equipment	2
Other Material Handling Equipment	10
Pavers	0
Paving Equipment	0
Plate Compactors	0
Pressure Washers	0
Pumps	0
Rollers	2
Rough Terrain Forklifts	0
Rubber Tired Dozers	2
Rubber Tired Loaders	0
Scrapers	1
Signal Boards	3
Skid Steer Loaders	0
Surfacing Equipment	1
Sweepers/Scrubbers	1
Tractors/Loaders/Backhoes	2
Trenchers	0
Welders	2

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Basic Project Model Assumptions

Project Name:	Mitigation			*Assumed Mitigation:*	
Modeled As:	Other Linear Project			On-Road	2010 and Newer On-Road Vehicle Fleet
Predominant Soil Type:	Weathered Rock Earth			Off-Road	Tier 4 Equipment
Project Length:	2,500 feet	0.47 miles			90% of HP as Tier 4 Equipment
Project Width:	900 feet				
Project Area (acres):	52 acres				
Maximum Area Disturbed/Day:	5 acres		*Note:*	[1] 0.6 months for clearing/ grubbing and 6 months for grading/excavating	
Water Trucks Used:	Yes				
Total Working in Month:	22 days				
Months Worked Each Year:					
2020	0 Months				
2021	0 Months				
2022	0 Months				
2023	6 Months[1]				
Haul Truck Capacity:	15 CY				
User Override Equipment:	10 Hours/Day				

Material Hauling/Handling Quantities by Task

Year	Task	Model As	Import Volume (CY/day)	Export Volume (CY/day)	Material	Miles per Trip (Import)	Miles per Trip (Export)	Miles Round Trip (for modeling)	Trips/day (one way and round)	No. of Employees
2023	Site Prep	Grubbing/ Clearing	0	6	soil, veg.	0	10	20	0.4	40
2023	Install Planting, Fencing, and Irrigation	Grading/ Excavation	0	91	rip rap	0	10	20	6	75
2023	**All**	**Grubbing/ Clearing**	**0**	**6**	**Soil**			20		**40**
2023	**All**	**Grading/ Excavation**	**0**	**91**	**Soil**			**20**		**75**

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Equipment - Number of Individual Equipment Pieces Operating for Various Construction Phases

	No. of Equipment	
Equipment	Grubbing/ Clearing Phase	Grading/ Excavating
Aerial Lifts	0	0
Air Compressors	0	0
Bore/Drill Rigs	0	0
Cement and Mortar Mixers	0	0
Concrete/Industrial Saws	0	0
Cranes	0	0
Crawler Tractors	0	0
Crushing/Proc. Equipment	0	0
Excavators	3	2
Forklifts	0	0
Generator Sets	0	1
Graders	0	1
Off-Highway Tractors	0	0
Off-Highway Trucks	0	0
Other Construction Equipment	0	2
Other General Industrial Equipment	0	0
Other Material Handling Equipment	0	0
Pavers	0	0
Paving Equipment	0	0
Plate Compactors	0	0
Pressure Washers	0	0
Pumps	0	0
Rollers	0	0
Rough Terrain Forklifts	0	0
Rubber Tired Dozers	0	1
Rubber Tired Loaders	0	0
Scrapers	0	0
Signal Boards	0	0
Skid Steer Loaders	0	0
Surfacing Equipment	0	0
Sweepers/Scrubbers	1	1
Tractors/Loaders/Backhoes	0	2
Trenchers	0	0
Welders	0	0

Attachment 6

RCEM Input and Output Files

For each contract, the following are attached:

- Unmitigated Input and Output
- On-Road Mitigated Output
- On-Road and Off-Road Mitigated Output

Erosion Protection
American River
Sacramento River

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with yellow or blue background can be modified. Program defaults have a white background
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project type
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new proje

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	American River Erosion Contract 1	
Construction Start Year	2020	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee constructi
Project Construction Time	3.30	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	2.40	miles
Total Project Area	29.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	167.00
	Grading/Excavation	15.00	1914.00	2045.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standa

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selecte

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F5

Construction Periods	User Override of Construction Months	m Calculated Months	User Override of Phase Starting Date	m Default Phase Starting Date
Grubbing/Land Clearing	0.30	0.33	4/5/2022	1/1/2020
Grading/Excavation	3.00	1.49	4/15/2022	1/11/2020
Drainage/Utilities/Sub-Grade	0.00	0.99		4/12/2020
Paving	0.00	0.50		4/12/2020
Totals (Months)		3		

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be us

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F6

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	28.00			12	336.00
Miles/round trip: Grading/Excavation	61.00			264	16104.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.07	0.32	2.39	0.08	0.04	0.01	1,182.70	0.00	0.04	1,194.73
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	3.90	0.00	0.00	3.94
Pounds per day - Grading/Excavation	3.47	15.24	114.76	3.99	1.75	0.54	56,684.93	0.16	1.92	57,261.75
Tons per const. Period - Grading/Excavation	0.11	0.50	3.79	0.13	0.06	0.02	1,870.60	0.01	0.06	1,889.64
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.11	0.50	3.79	0.13	0.06	0.02	1,874.51	0.01	0.06	1,893.58

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F9

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D11

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearin	40		80	1,600.00
No. of employees: Grading/Excavatio	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grad			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Grading/Excavation (grams/mile	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Grading/Excavation (grams/trip	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Draining/Utilities/Sub-Grade (grams/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.21	3.60	0.35	0.16	0.07	0.01	1,242.58	0.03	0.01	1,247.58
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	4.10	0.00	0.00	4.12
Pounds per day - Grading/Excavation	0.40	6.75	0.66	0.31	0.13	0.02	2,329.85	0.05	0.03	2,339.21
Tons per const. Period - Grading/Excavation	0.01	0.22	0.02	0.01	0.00	0.00	76.88	0.00	0.00	77.19
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.01	0.23	0.02	0.01	0.00	0.00	80.99	0.00	0.00	81.31

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	1		40.00		40.00
Drainage/Utilities/Subgrade	0				0.00
Paving	0				0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.29	0.01	0.00	0.00	140.80	0.00	0.00	142.23
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.47
Pounds per day - Grading/Excavation	0.01	0.04	0.29	0.01	0.00	0.00	140.80	0.00	0.00	142.23
Tons per const. Period - Grading/Excavation	0.00	0.00	0.01	0.00	0.00	0.00	4.65	0.00	0.00	4.69
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.01	0.00	0.00	0.00	5.11	0.00	0.00	5.16

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing	5.00		50.00	0.17	10.40	0.03
Fugitive Dust - Grading/Excavation	0.50		5.00	0.17	1.04	0.03
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selecte

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.57	25.19	13.75	0.66	0.61	0.04	3,868.79	1.25	0.04	3,910.51
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.41	4.59	3.66	0.18	0.18	0.01	778.79	0.04	0.01	781.46
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.24	2.40	2.25	0.15	0.14	0.00	307.72	0.10	0.00	311.03
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing		pounds per day	2.65	34.43	22.36	1.10	1.04	0.06	5,325.16	1.43	0.05	5,374.74
	Grubbing/Land Clearing		tons per phase	0.01	0.11	0.07	0.00	0.00	0.00	17.57	0.00	0.00	17.74

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Cranes	0.91	4.63	10.23	0.42	0.39	0.01	1,366.84	0.44	0.01	1,381.57
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Excavators	0.52	8.40	4.58	0.22	0.20	0.01	1,289.60	0.42	0.01	1,303.50
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.41	4.59	3.66	0.18	0.18	0.01	778.79	0.04	0.01	781.46
2.00			Model Default Tie	Graders	1.39	11.05	13.05	0.73	0.67	0.02	1,514.01	0.49	0.01	1,530.28
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Off-Highway Trucks	1.31	8.36	9.98	0.36	0.33	0.03	3,181.56	1.03	0.03	3,215.81
1.00			Model Default Tie	Other Construction Equipment	0.47	5.03	4.77	0.25	0.23	0.01	747.91	0.24	0.01	755.99
2.00			Model Default Tie	Other General Industrial Equipmen	0.45	4.84	4.22	0.26	0.24	0.01	620.05	0.20	0.01	626.74
1.00			Model Default Tie	Other Material Handling Equipmen	0.33	4.68	2.79	0.15	0.14	0.01	695.43	0.22	0.01	702.93
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Rubber Tired Dozers	2.14	17.52	21.62	0.99	0.91	0.02	2,155.67	0.70	0.02	2,178.82
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
3.00			Model Default Tie	Skid Steer Loaders	0.26	5.20	3.48	0.13	0.12	0.01	751.47	0.24	0.01	759.57
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.24	2.40	2.25	0.15	0.14	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tie	Tractors/Loaders/Backhoes	0.42	5.65	4.23	0.23	0.21	0.01	760.86	0.25	0.01	769.05
2.00			Model Default Tie	Trenchers	0.94	6.75	8.77	0.62	0.57	0.01	848.81	0.27	0.01	857.95
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grading/Excavation	pounds per day	10.23	91.34	96.35	4.80	4.44	0.16	15,388.57	4.68	0.14	15,546.45
	Grading/Excavation	tons per phase	0.34	3.01	3.18	0.16	0.15	0.01	507.82	0.15	0.00	513.03

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =			0.35	3.13	3.25	0.16	0.15	0.01	525.40	0.16	0.00	530.77

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F4

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 1

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.95	38.39	25.39	51.36	1.36	50.00	11.55	1.15	10.40	0.08	7,891.24	1.46	0.11	7,959.28
Grading/Excavation	14.11	113.36	212.05	14.11	9.11	5.00	7.37	6.33	1.04	0.73	74,544.15	4.89	2.09	75,289.65
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	14.11	113.36	212.05	51.36	9.11	50.00	11.55	6.33	10.40	0.73	74,544.15	4.89	2.09	75,289.65
Total (tons/construction project)	0.48	3.87	7.08	0.64	0.31	0.33	0.28	0.21	0.07	0.02	2,486.00	0.17	0.07	2,510.82

Notes:

Project Start Year ->	2020
Project Length (months) ->	3
Total Project Area (acres) ->	29
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	167	0	336	0	1,600	40
Grading/Excavation	3,959	0	16,104	0	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 1

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.13	0.08	0.17	0.00	0.17	0.04	0.00	0.03	0.00	26.04	0.00	0.00	23.83
Grading/Excavation	0.47	3.74	7.00	0.47	0.30	0.17	0.24	0.21	0.03	0.02	2,459.96	0.16	0.07	2,253.98
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.47	3.74	7.00	0.47	0.30	0.17	0.24	0.21	0.03	0.02	2459.96	0.16	0.07	2,253.98
Total (tons/construction project)	0.48	3.87	7.08	0.64	0.31	0.33	0.28	0.21	0.07	0.02	2486.00	0.17	0.07	2,277.80

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 1

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.92	38.34	23.86	51.35	1.35	50.00	11.54	1.14	10.40	0.08	7,851.53	1.45	0.10	7,918.76
Grading/Excavation	13.01	111.32	146.49	13.77	8.77	5.00	7.04	6.00	1.04	0.71	72,839.33	4.84	1.98	73,549.71
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.01	111.32	146.49	51.35	8.77	50.00	11.54	6.00	10.40	0.71	72,839.33	4.84	1.98	73,549.71
Total (tons/construction project)	0.44	3.80	4.91	0.62	0.29	0.33	0.27	0.20	0.07	0.02	2,429.61	0.16	0.07	2,453.27

Notes:

Project Start Year ->	2020
Project Length (months) ->	3
Total Project Area (acres) ->	29
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	167	0	336	0	1,600	40
Grading/Excavation	3,959	0	16,104	0	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 1

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.13	0.08	0.17	0.00	0.17	0.04	0.00	0.03	0.00	25.91	0.00	0.00	23.71
Grading/Excavation	0.43	3.67	4.83	0.45	0.29	0.17	0.23	0.20	0.03	0.02	2,403.70	0.16	0.07	2,201.89
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.43	3.67	4.83	0.45	0.29	0.17	0.23	0.20	0.03	0.02	2403.70	0.16	0.07	2,201.89
Total (tons/construction project)	0.44	3.80	4.91	0.62	0.29	0.33	0.27	0.20	0.07	0.02	2429.61	0.16	0.07	2,225.59

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 1

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.02	45.60	9.99	50.60	0.60	50.00	10.83	0.43	10.40	0.08	7,851.53	1.45	0.10	7,918.76
Grading/Excavation	7.75	120.95	69.78	9.64	4.64	5.00	3.22	2.18	1.04	0.71	72,839.33	4.84	1.98	73,549.71
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	7.75	120.95	69.78	50.60	4.64	50.00	10.83	2.18	10.40	0.71	72,839.33	4.84	1.98	73,549.71
Total (tons/construction project)	0.26	4.14	2.34	0.49	0.16	0.33	0.14	0.07	0.07	0.02	2,429.61	0.16	0.07	2,453.27

Notes:

Project Start Year ->	2020
Project Length (months) ->	3
Total Project Area (acres) ->	29
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	167	0	336	0	1,600	40
Grading/Excavation	3,959	0	16,104	0	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 1

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.15	0.03	0.17	0.00	0.17	0.04	0.00	0.03	0.00	25.91	0.00	0.00	23.71
Grading/Excavation	0.26	3.99	2.30	0.32	0.15	0.17	0.11	0.07	0.03	0.02	2,403.70	0.16	0.07	2,201.89
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.26	3.99	2.30	0.32	0.15	0.17	0.11	0.07	0.03	0.02	2403.70	0.16	0.07	2,201.89
Total (tons/construction project)	0.26	4.14	2.34	0.49	0.16	0.33	0.14	0.07	0.07	0.02	2429.61	0.16	0.07	2,225.59

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with
yellow or blue background can be modified. Program defaults have a white background
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project type
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new proje

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	American River Erosion Contract 2	
Construction Start Year	2021	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee constructi
Project Construction Time	3.30	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	6.10	miles
Total Project Area	74.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	182.00
	Grading/Excavation	15.00	10642.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standa

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selecte

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F5

Construction Periods	User Override of Construction Months	m Calculated Months	User Override of Phase Starting Date	m Default Phase Starting Date
Grubbing/Land Clearing	0.30	0.33	4/5/2021	1/1/2021
Grading/Excavation	3.00	1.49	4/15/2021	1/11/2021
Drainage/Utilities/Sub-Grade	0.00	0.99		4/13/2021
Paving	0.00	0.50		4/13/2021
Totals (Months)	3			

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be us

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F6

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	28.00			13	364.00
Miles/round trip: Grading/Excavation	85.00			710	60350.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.08	0.35	2.93	0.09	0.04	0.01	1,295.61	0.00	0.04	1,308.79
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	4.28	0.00	0.00	4.32
Pounds per day - Grading/Excavation	13.52	57.57	485.00	15.26	6.88	2.05	214,807.51	0.63	7.28	216,993.03
Tons per const. Period - Grading/Excavation	0.45	1.90	16.01	0.50	0.23	0.07	7,088.65	0.02	0.24	7,160.77
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.45	1.90	16.01	0.50	0.23	0.07	7,092.92	0.02	0.24	7,165.09

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F9

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D11

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearin	40		80	1,600.00
No. of employees: Grading/Excavatio	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grad			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Grading/Excavation (grams/mile	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Grading/Excavation (grams/trip	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Draining/Utilities/Sub-Grade (grams/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.23	3.90	0.39	0.17	0.07	0.01	1,284.42	0.03	0.02	1,289.97
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	4.24	0.00	0.00	4.26
Pounds per day - Grading/Excavation	0.43	7.30	0.73	0.31	0.13	0.02	2,408.28	0.05	0.03	2,418.68
Tons per const. Period - Grading/Excavation	0.01	0.24	0.02	0.01	0.00	0.00	79.47	0.00	0.00	79.82
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.02	0.25	0.03	0.01	0.00	0.00	83.71	0.00	0.00	84.07

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	5		40.00		200.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.32	0.01	0.00	0.00	142.37	0.00	0.00	143.82
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.47
Pounds per day - Grading/Excavation	0.04	0.19	1.61	0.05	0.02	0.01	711.87	0.00	0.02	719.12
Tons per const. Period - Grading/Excavation	0.00	0.01	0.05	0.00	0.00	0.00	23.49	0.00	0.00	23.73
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.01	0.05	0.00	0.00	0.00	23.96	0.00	0.00	24.21

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing	5.00		50.00	0.17	10.40	0.03
Fugitive Dust - Grading/Excavation	2.50		25.00	0.83	5.20	0.17
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selecte

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.77	25.32	16.66	0.81	0.74	0.04	3,870.16	1.25	0.04	3,911.89
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.45	4.61	3.96	0.21	0.21	0.01	778.79	0.04	0.01	781.53
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.29	2.44	2.57	0.19	0.17	0.00	307.72	0.10	0.00	311.03
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grubbing/Land Clearing	pounds per day	2.94	34.62	25.89	1.31	1.23	0.06	5,326.53	1.43	0.05	5,376.19
Grubbing/Land Clearing	tons per phase	0.01	0.11	0.09	0.00	0.00	0.00	17.58	0.00	0.00	17.74

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Cranes	3.03	14.55	35.58	1.44	1.33	0.04	4,099.84	1.33	0.04	4,144.02
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.77	25.32	16.66	0.81	0.74	0.04	3,870.16	1.25	0.04	3,911.89
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tie	Generator Sets	1.34	13.82	11.87	0.63	0.63	0.02	2,336.38	0.12	0.02	2,344.60
4.00			Model Default Tie	Graders	3.20	22.52	30.62	1.71	1.57	0.03	3,027.78	0.98	0.03	3,060.33
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Off-Highway Trucks	4.52	26.90	39.28	1.44	1.32	0.10	9,541.22	3.09	0.09	9,643.99
1.00			Model Default Tie	Other Construction Equipment	0.52	5.07	5.48	0.29	0.26	0.01	748.16	0.24	0.01	756.23
2.00			Model Default Tie	Other General Industrial Equipmen	0.53	4.93	4.90	0.34	0.31	0.01	620.05	0.20	0.01	626.74
1.00			Model Default Tie	Other Material Handling Equipmen	0.37	4.71	3.31	0.17	0.15	0.01	695.43	0.22	0.01	702.93
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Rubber Tired Dozers	6.64	54.52	68.55	3.13	2.88	0.07	6,462.63	2.09	0.06	6,532.07
4.00			Model Default Tie	Rubber Tired Loaders	1.69	7.88	19.03	0.63	0.58	0.03	2,981.41	0.96	0.03	3,013.61
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
3.00			Model Default Tie	Skid Steer Loaders	0.28	5.21	3.76	0.15	0.14	0.01	750.74	0.24	0.01	758.84
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.29	2.44	2.57	0.19	0.17	0.00	307.72	0.10	0.00	311.03
3.00			Model Default Tie	Tractors/Loaders/Backhoes	0.71	8.56	7.18	0.42	0.39	0.01	1,140.01	0.37	0.01	1,152.28
2.00			Model Default Tie	Trenchers	0.99	6.77	9.12	0.66	0.61	0.01	848.74	0.27	0.01	857.88
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	26.32	205.45	260.62	12.12	11.21	0.39	37,800.14	11.51	0.34	38,188.17
Grading/Excavation	tons per phase	0.87	6.78	8.60	0.40	0.37	0.01	1,247.40	0.38	0.01	1,260.21

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =			0.88	6.89	8.69	0.40	0.37	0.01	1,264.98	0.38	0.01	1,277.95

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F4

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	3.26	38.90	29.52	51.58	1.58	50.00	11.75	1.35	10.40	0.08	8,048.93	1.46	0.11	8,118.77
Grading/Excavation	40.31	270.51	747.96	52.74	27.74	25.00	23.44	18.24	5.20	2.47	255,727.80	12.19	7.67	258,319.01
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	40.31	270.51	747.96	52.74	27.74	50.00	23.44	18.24	10.40	2.47	255,727.80	12.19	7.67	258,319.01
Total (tons/construction project)	1.34	9.06	24.78	1.91	0.92	0.99	0.81	0.61	0.21	0.08	8,465.58	0.41	0.25	8,551.32

Notes:

Project Start Year ->	2021
Project Length (months) ->	3
Total Project Area (acres) ->	74
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	182	0	364	0	1,600	40
Grading/Excavation	10,642	0	60,350	0	3,000	200
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.13	0.10	0.17	0.01	0.17	0.04	0.00	0.03	0.00	26.56	0.00	0.00	24.31
Grading/Excavation	1.33	8.93	24.68	1.74	0.92	0.83	0.77	0.60	0.17	0.08	8,439.02	0.40	0.25	7,733.40
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.33	8.93	24.68	1.74	0.92	0.83	0.77	0.60	0.17	0.08	8439.02	0.40	0.25	7,733.40
Total (tons/construction project)	1.34	9.06	24.78	1.91	0.92	0.99	0.81	0.61	0.21	0.08	8465.58	0.41	0.25	7,757.71

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	3.23	38.84	27.55	51.57	1.57	50.00	11.74	1.34	10.40	0.08	8,000.00	1.46	0.11	8,068.90
Grading/Excavation	35.68	262.11	452.01	51.14	26.14	25.00	21.90	16.70	5.20	2.40	248,395.07	11.98	7.22	250,844.82
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	35.68	262.11	452.01	51.57	26.14	50.00	21.90	16.70	10.40	2.40	248,395.07	11.98	7.22	250,844.82
Total (tons/construction project)	1.19	8.78	15.01	1.86	0.87	0.99	0.76	0.56	0.21	0.08	8,223.44	0.40	0.24	8,304.51

Notes:

Project Start Year ->	2021
Project Length (months) ->	3
Total Project Area (acres) ->	74
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	182	0	364	0	1,600	40
Grading/Excavation	10,642	0	60,350	0	3,000	200
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.13	0.09	0.17	0.01	0.17	0.04	0.00	0.03	0.00	26.40	0.00	0.00	24.16
Grading/Excavation	1.18	8.65	14.92	1.69	0.86	0.83	0.72	0.55	0.17	0.08	8,197.04	0.40	0.24	7,509.64
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.18	8.65	14.92	1.69	0.86	0.83	0.72	0.55	0.17	0.08	8197.04	0.40	0.24	7,509.64
Total (tons/construction project)	1.19	8.78	15.01	1.86	0.87	0.99	0.76	0.56	0.21	0.08	8223.44	0.40	0.24	7,533.80

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.04	45.92	10.15	50.61	0.61	50.00	10.83	0.43	10.40	0.08	8,000.00	1.46	0.11	8,068.90
Grading/Excavation	21.34	288.94	225.04	40.39	15.39	25.00	11.96	6.76	5.20	2.40	248,395.07	11.98	7.22	250,844.82
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	21.34	288.94	225.04	50.61	15.39	50.00	11.96	6.76	10.40	2.40	248,395.07	11.98	7.22	250,844.82
Total (tons/construction project)	0.71	9.69	7.46	1.50	0.51	0.99	0.43	0.22	0.21	0.08	8,223.44	0.40	0.24	8,304.51

Notes:

Project Start Year ->	2021
Project Length (months) ->	3
Total Project Area (acres) ->	74
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	182	0	364	0	1,600	40
Grading/Excavation	10,642	0	60,350	0	3,000	200
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.15	0.03	0.17	0.00	0.17	0.04	0.00	0.03	0.00	26.40	0.00	0.00	24.16
Grading/Excavation	0.70	9.54	7.43	1.33	0.51	0.83	0.39	0.22	0.17	0.08	8,197.04	0.40	0.24	7,509.64
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.70	9.54	7.43	1.33	0.51	0.83	0.39	0.22	0.17	0.08	8197.04	0.40	0.24	7,509.64
Total (tons/construction project)	0.71	9.69	7.46	1.50	0.51	0.99	0.43	0.22	0.21	0.08	8223.44	0.40	0.24	7,533.80

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with
yellow or blue background can be modified. Program defaults have a white background
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project type
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new proje

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	American River Erosion Contract 2	
Construction Start Year	2022	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee constructi
Project Construction Time	3.30	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	6.10	miles
Total Project Area	74.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	182.00
	Grading/Excavation	15.00	10642.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standa

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selecte

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F5

Construction Periods	User Override of Construction Months	m Calculated Months	User Override of Phase Starting Date	m Default Phase Starting Date
Grubbing/Land Clearing	0.30	0.33	4/5/2022	1/1/2022
Grading/Excavation	3.00	1.49	4/15/2022	1/11/2022
Drainage/Utilities/Sub-Grade	0.00	0.99		4/13/2022
Paving	0.00	0.50		4/13/2022
Totals (Months)	3			

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be us

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F6

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	28.00			13	364.00
Miles/round trip: Grading/Excavation	85.00			710	60350.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.08	0.34	2.59	0.09	0.04	0.01	1,281.25	0.00	0.04	1,294.29
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	4.23	0.00	0.00	4.27
Pounds per day - Grading/Excavation	13.02	57.10	430.07	14.94	6.57	2.03	212,427.69	0.60	7.20	214,589.35
Tons per const. Period - Grading/Excavation	0.43	1.88	14.19	0.49	0.22	0.07	7,010.11	0.02	0.24	7,081.45
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.43	1.89	14.20	0.49	0.22	0.07	7,014.34	0.02	0.24	7,085.72

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F9

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D11

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearin	40		80	1,600.00
No. of employees: Grading/Excavatio	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grad			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Grading/Excavation (grams/mile	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Grading/Excavation (grams/trip	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Draining/Utilities/Sub-Grade (grams/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.21	3.60	0.35	0.16	0.07	0.01	1,242.58	0.03	0.01	1,247.58
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	4.10	0.00	0.00	4.12
Pounds per day - Grading/Excavation	0.40	6.75	0.66	0.31	0.13	0.02	2,329.85	0.05	0.03	2,339.21
Tons per const. Period - Grading/Excavation	0.01	0.22	0.02	0.01	0.00	0.00	76.88	0.00	0.00	77.19
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.01	0.23	0.02	0.01	0.00	0.00	80.99	0.00	0.00	81.31

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	5		40.00		200.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.29	0.01	0.00	0.00	140.80	0.00	0.00	142.23
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.47
Pounds per day - Grading/Excavation	0.04	0.19	1.43	0.05	0.02	0.01	703.99	0.00	0.02	711.15
Tons per const. Period - Grading/Excavation	0.00	0.01	0.05	0.00	0.00	0.00	23.23	0.00	0.00	23.47
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.01	0.05	0.00	0.00	0.00	23.70	0.00	0.00	23.94

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing	5.00		50.00	0.17	10.40	0.03
Fugitive Dust - Grading/Excavation	2.50		25.00	0.83	5.20	0.17
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selecte

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.57	25.19	13.75	0.66	0.61	0.04	3,868.79	1.25	0.04	3,910.51
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.41	4.59	3.66	0.18	0.18	0.01	778.79	0.04	0.01	781.46
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.24	2.40	2.25	0.15	0.14	0.00	307.72	0.10	0.00	311.03
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing		pounds per day	2.65	34.43	22.36	1.10	1.04	0.06	5,325.16	1.43	0.05	5,374.74
	Grubbing/Land Clearing		tons per phase	0.01	0.11	0.07	0.00	0.00	0.00	17.57	0.00	0.00	17.74

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Cranes	2.74	13.89	30.70	1.27	1.17	0.04	4,100.51	1.33	0.04	4,144.71
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.57	25.19	13.75	0.66	0.61	0.04	3,868.79	1.25	0.04	3,910.51
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tie	Generator Sets	1.24	13.78	10.98	0.55	0.55	0.02	2,336.38	0.11	0.02	2,344.39
4.00			Model Default Tie	Graders	2.79	22.10	26.10	1.45	1.33	0.03	3,028.02	0.98	0.03	3,060.56
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Off-Highway Trucks	3.94	25.07	29.95	1.09	1.00	0.10	9,544.67	3.09	0.09	9,647.44
1.00			Model Default Tie	Other Construction Equipment	0.47	5.03	4.77	0.25	0.23	0.01	747.91	0.24	0.01	755.99
2.00			Model Default Tie	Other General Industrial Equipmen	0.45	4.84	4.22	0.26	0.24	0.01	620.05	0.20	0.01	626.74
1.00			Model Default Tie	Other Material Handling Equipmen	0.33	4.68	2.79	0.15	0.14	0.01	695.43	0.22	0.01	702.93
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Rubber Tired Dozers	6.41	52.55	64.87	2.97	2.73	0.07	6,467.00	2.09	0.06	6,536.47
4.00			Model Default Tie	Rubber Tired Loaders	1.44	7.54	14.90	0.50	0.46	0.03	2,983.57	0.97	0.03	3,015.78
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
3.00			Model Default Tie	Skid Steer Loaders	0.26	5.20	3.48	0.13	0.12	0.01	751.47	0.24	0.01	759.57
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.24	2.40	2.25	0.15	0.14	0.00	307.72	0.10	0.00	311.03
3.00			Model Default Tie	Tractors/Loaders/Backhoes	0.62	8.48	6.35	0.34	0.31	0.01	1,141.29	0.37	0.01	1,153.57
2.00			Model Default Tie	Trenchers	0.94	6.75	8.77	0.62	0.57	0.01	848.81	0.27	0.01	857.95
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grading/Excavation	pounds per day	23.86	199.74	226.59	10.51	9.72	0.39	37,811.49	11.50	0.34	38,199.39
	Grading/Excavation	tons per phase	0.79	6.59	7.48	0.35	0.32	0.01	1,247.78	0.38	0.01	1,260.58

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Paving	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =			0.80	6.71	7.55	0.35	0.32	0.01	1,265.35	0.38	0.01	1,278.32

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F4

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.95	38.42	25.59	51.37	1.37	50.00	11.55	1.15	10.40	0.08	7,989.79	1.46	0.11	8,058.84
Grading/Excavation	37.32	263.77	658.74	50.81	25.81	25.00	21.64	16.44	5.20	2.45	253,273.02	12.16	7.59	255,839.10
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	37.32	263.77	658.74	51.37	25.81	50.00	21.64	16.44	10.40	2.45	253,273.02	12.16	7.59	255,839.10
Total (tons/construction project)	1.24	8.83	21.82	1.85	0.86	0.99	0.75	0.55	0.21	0.08	8,384.38	0.41	0.25	8,469.28

Notes:

Project Start Year ->	2022
Project Length (months) ->	3
Total Project Area (acres) ->	74
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	182	0	364	0	1,600	40
Grading/Excavation	10,642	0	60,350	0	3,000	200
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.13	0.08	0.17	0.00	0.17	0.04	0.00	0.03	0.00	26.37	0.00	0.00	24.13
Grading/Excavation	1.23	8.70	21.74	1.68	0.85	0.83	0.71	0.54	0.17	0.08	8,358.01	0.40	0.25	7,659.16
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.23	8.70	21.74	1.68	0.85	0.83	0.71	0.54	0.17	0.08	8358.01	0.40	0.25	7,659.16
Total (tons/construction project)	1.24	8.83	21.82	1.85	0.86	0.99	0.75	0.55	0.21	0.08	8384.38	0.41	0.25	7,683.28

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.92	38.37	23.95	51.36	1.36	50.00	11.54	1.14	10.40	0.08	7,947.13	1.45	0.11	8,015.30
Grading/Excavation	33.18	256.11	412.83	49.52	24.52	25.00	20.40	15.20	5.20	2.39	246,878.91	11.97	7.17	249,313.26
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	33.18	256.11	412.83	51.36	24.52	50.00	20.40	15.20	10.40	2.39	246,878.91	11.97	7.17	249,313.26
Total (tons/construction project)	1.10	8.58	13.70	1.80	0.81	0.99	0.71	0.51	0.21	0.08	8,173.23	0.40	0.24	8,253.79

Notes:

Project Start Year ->	2022
Project Length (months) ->	3
Total Project Area (acres) ->	74
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	182	0	364	0	1,600	40
Grading/Excavation	10,642	0	60,350	0	3,000	200
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.13	0.08	0.17	0.00	0.17	0.04	0.00	0.03	0.00	26.23	0.00	0.00	24.00
Grading/Excavation	1.09	8.45	13.62	1.63	0.81	0.83	0.67	0.50	0.17	0.08	8,147.00	0.39	0.24	7,463.79
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.09	8.45	13.62	1.63	0.81	0.83	0.67	0.50	0.17	0.08	8147.00	0.39	0.24	7,463.79
Total (tons/construction project)	1.10	8.58	13.70	1.80	0.81	0.99	0.71	0.51	0.21	0.08	8173.23	0.40	0.24	7,487.79

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> American River Erosion Contract 2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.02	45.62	10.08	50.61	0.61	50.00	10.83	0.43	10.40	0.08	7,947.13	1.45	0.11	8,015.30
Grading/Excavation	21.29	288.65	219.89	40.39	15.39	25.00	11.95	6.75	5.20	2.39	246,878.91	11.97	7.17	249,313.26
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	21.29	288.65	219.89	50.61	15.39	50.00	11.95	6.75	10.40	2.39	246,878.91	11.97	7.17	249,313.26
Total (tons/construction project)	0.71	9.68	7.29	1.50	0.51	0.99	0.43	0.22	0.21	0.08	8,173.23	0.40	0.24	8,253.79

Notes:

Project Start Year ->	2022
Project Length (months) ->	3
Total Project Area (acres) ->	74
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	182	0	364	0	1,600	40
Grading/Excavation	10,642	0	60,350	0	3,000	200
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> American River Erosion Contract 2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.15	0.03	0.17	0.00	0.17	0.04	0.00	0.03	0.00	26.23	0.00	0.00	24.00
Grading/Excavation	0.70	9.53	7.26	1.33	0.51	0.83	0.39	0.22	0.17	0.08	8,147.00	0.39	0.24	7,463.79
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.70	9.53	7.26	1.33	0.51	0.83	0.39	0.22	0.17	0.08	8147.00	0.39	0.24	7,463.79
Total (tons/construction project)	0.71	9.68	7.29	1.50	0.51	0.99	0.43	0.22	0.21	0.08	8173.23	0.40	0.24	7,487.79

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with
yellow or blue background can be modified. Program defaults have a white background
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project type
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new proje

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2020_SRErosion_Contract1	
Construction Start Year	2020	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee constructi
Project Construction Time	4.30	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.22	miles
Total Project Area	2.00	acres
Maximum Area Disturbed/Day	2.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	14.00
	Grading/Excavation	15.00	13.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standa

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selecte

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F5

Construction Periods	User Override of Construction Months	m Calculated Months	User Override of Phase Starting Date	m Default Phase Starting Date
Grubbing/Land Clearing	0.30	0.43	8/1/2020	1/1/2020
Grading/Excavation	4.00	1.72	8/11/2020	1/11/2020
Drainage/Utilities/Sub-Grade	0.00	1.51		5/12/2020
Paving	0.00	0.65		5/12/2020
Totals (Months)		4		

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be us

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F6

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	40.00			1	40.00
Miles/round trip: Grading/Excavation	10.00			1	10.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Grading/Excavation (grams/mile	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.36	0.01	0.00	0.00	143.89	0.00	0.00	145.36
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.48
Pounds per day - Grading/Excavation	0.00	0.01	0.09	0.00	0.00	0.00	35.97	0.00	0.00	36.34
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	1.58	0.00	0.00	1.60
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.01	0.00	0.00	0.00	2.06	0.00	0.00	2.08

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F9

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Grading/Excavation (grams/mile	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D11

Worker Commute Emissions	User Override of Worker			
User Input	Commute Default Values	Default Values		
Miles/ one-way trip	20		Calculated	Calculated
One-way trips/day	2		Daily Trips	Daily VMT
No. of employees: Grubbing/Land Clearin	25		50	1,000.00
No. of employees: Grading/Excavatio	40		80	1,600.00
No. of employees: Drainage/Utilities/Sub-Grad			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Grubbing/Land Clearing (grams/mile	0.02	1.08	0.11	0.05	0.02	0.00	371.46	0.01	0.00	373.08
Grading/Excavation (grams/mile	0.02	1.08	0.11	0.05	0.02	0.00	371.46	0.01	0.00	373.08
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip	1.00	2.55	0.20	0.00	0.00	0.00	84.03	0.01	0.01	86.84
Grading/Excavation (grams/trip	1.00	2.55	0.20	0.00	0.00	0.00	84.03	0.01	0.01	86.84
Draining/Utilities/Sub-Grade (grams/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.16	2.65	0.27	0.10	0.04	0.01	828.20	0.02	0.01	832.07
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	2.73	0.00	0.00	2.75
Pounds per day - Grading/Excavation	0.25	4.25	0.44	0.17	0.07	0.01	1,325.12	0.03	0.02	1,331.31
Tons per const. Period - Grading/Excavation	0.01	0.19	0.02	0.01	0.00	0.00	58.31	0.00	0.00	58.58
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.01	0.20	0.02	0.01	0.00	0.00	61.04	0.00	0.00	61.32

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions	User Override of	Program Estimate of	User Override of Truck	Default Values	Calculated
User Input	Default # Water Trucks	Number of Water Trucks	Miles Traveled/Vehicle/Day	Miles Traveled/Vehicle/Day	Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	1		40.00		40.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Grubbing/Land Clearing (grams/mile	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Grading/Excavation (grams/mile	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.36	0.01	0.00	0.00	143.89	0.00	0.00	145.36
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.48
Pounds per day - Grading/Excavation	0.01	0.04	0.36	0.01	0.00	0.00	143.89	0.00	0.00	145.36
Tons per const. Period - Grading/Excavation	0.00	0.00	0.02	0.00	0.00	0.00	6.33	0.00	0.00	6.40
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.02	0.00	0.00	0.00	6.81	0.00	0.00	6.88

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max	Default	PM10	PM10	PM2.5	PM2.5
	Acreage Disturbed/Day	Maximum Acreage/Day	pounds/day	tons/per period	pounds/day	tons/per period
Fugitive Dust - Grubbing/Land Clearing	2.00		20.00	0.07	4.16	0.01
Fugitive Dust - Grading/Excavation	0.50		5.00	0.22	1.04	0.05
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selecte

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.52	20.23	14.93	0.72	0.67	0.03	3,095.67	1.00	0.03	3,129.04
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.40	3.71	3.48	0.20	0.20	0.01	623.04	0.04	0.00	625.31
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.34	1.81	2.16	0.08	0.08	0.00	295.88	0.03	0.00	297.39
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.27	1.99	2.33	0.19	0.17	0.00	246.18	0.08	0.00	248.83
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing		pounds per day	2.53	27.73	22.90	1.19	1.12	0.05	4,260.77	1.15	0.04	4,300.57
	Grubbing/Land Clearing		tons per phase	0.01	0.09	0.08	0.00	0.00	0.00	14.06	0.00	0.00	14.19

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Cranes	0.89	4.14	10.55	0.43	0.40	0.01	1,093.39	0.35	0.01	1,105.18
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Excavators	0.51	6.74	4.98	0.24	0.22	0.01	1,031.89	0.33	0.01	1,043.01
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.40	3.71	3.48	0.20	0.20	0.01	623.04	0.04	0.00	625.31
2.00			Model Default Tie	Graders	1.43	9.16	14.00	0.78	0.72	0.01	1,209.88	0.39	0.01	1,222.88
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Off-Highway Trucks	1.32	7.58	12.58	0.46	0.42	0.03	2,544.52	0.82	0.02	2,571.93
1.00			Model Default Tie	Other Construction Equipment	0.49	4.12	5.24	0.28	0.25	0.01	598.80	0.19	0.01	605.27
2.00			Model Default Tie	Other General Industrial Equipmen	0.47	3.98	4.29	0.31	0.29	0.01	496.04	0.16	0.00	501.39
1.00			Model Default Tie	Other Material Handling Equipmen	0.30	3.74	2.79	0.14	0.13	0.01	556.35	0.18	0.01	562.34
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Rubber Tired Dozers	1.92	15.87	20.30	0.93	0.86	0.02	1,726.14	0.56	0.02	1,744.68
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.34	1.81	2.16	0.08	0.08	0.00	295.88	0.03	0.00	297.39
3.00			Model Default Tie	Skid Steer Loaders	0.24	4.17	3.19	0.14	0.13	0.01	600.51	0.19	0.01	606.98
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.27	1.99	2.33	0.19	0.17	0.00	246.18	0.08	0.00	248.83
2.00			Model Default Tie	Tractors/Loaders/Backhoes	0.42	4.61	4.25	0.27	0.25	0.01	607.74	0.20	0.01	614.28
2.00			Model Default Tie	Trenchers	0.87	5.48	7.89	0.59	0.54	0.01	678.76	0.22	0.01	686.07
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grading/Excavation	pounds per day	9.88	77.09	98.00	5.04	4.66	0.13	12,309.11	3.75	0.11	12,435.55
	Grading/Excavation	tons per phase	0.43	3.39	4.31	0.22	0.20	0.01	541.60	0.16	0.00	547.16

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =			0.44	3.48	4.39	0.23	0.21	0.01	555.66	0.17	0.00	561.36

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F4

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		206		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		226		8
Crawler Tractors		208		8
Crushing/Proc. Equipment		85		8
Excavators		163		8
Forklifts		89		8
Generator Sets		84		8
Graders		175		8
Off-Highway Tractors		123		8
Off-Highway Trucks		400		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		167		8
Pavers		126		8
Paving Equipment		131		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		81		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		255		8
Rubber Tired Loaders		200		8
Scrapers		362		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		254		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		98		8
Trenchers		81		8
Welders		46		8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2020_SRErosion_Contract1

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.70	30.46	23.90	21.31	1.31	20.00	5.33	1.17	4.16	0.06	5,376.75	1.17	0.06	5,423.35
Grading/Excavation	10.14	81.38	98.89	10.22	5.22	5.00	5.77	4.73	1.04	0.14	13,814.10	3.78	0.13	13,948.56
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	10.14	81.38	98.89	21.31	5.22	20.00	5.77	4.73	4.16	0.14	13,814.10	3.78	0.13	13,948.56
Total (tons/construction project)	0.46	3.68	4.43	0.52	0.23	0.29	0.27	0.21	0.06	0.01	625.56	0.17	0.01	631.63

Notes:

Project Start Year ->	2020
Project Length (months) ->	4
Total Project Area (acres) ->	2
Maximum Area Disturbed/Day (acres) ->	2
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	14	0	40	0	1,000	40
Grading/Excavation	13	0	10	0	1,600	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2020_SRErosion_Contract1

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.10	0.08	0.07	0.00	0.07	0.02	0.00	0.01	0.00	17.74	0.00	0.00	16.24
Grading/Excavation	0.45	3.58	4.35	0.45	0.23	0.22	0.25	0.21	0.05	0.01	607.82	0.17	0.01	556.78
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.45	3.58	4.35	0.45	0.23	0.22	0.25	0.21	0.05	0.01	607.82	0.17	0.01	556.78
Total (tons/construction project)	0.46	3.68	4.43	0.52	0.23	0.29	0.27	0.21	0.06	0.01	625.56	0.17	0.01	573.01

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2020_SRErosion_Contract1

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.70	30.44	23.43	21.31	1.31	20.00	5.33	1.17	4.16	0.06	5,366.10	1.17	0.06	5,412.50
Grading/Excavation	10.14	81.37	98.60	10.22	5.22	5.00	5.77	4.73	1.04	0.14	13,807.44	3.78	0.13	13,941.77
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	10.14	81.37	98.60	21.31	5.22	20.00	5.77	4.73	4.16	0.14	13,807.44	3.78	0.13	13,941.77
Total (tons/construction project)	0.45	3.68	4.42	0.52	0.23	0.29	0.27	0.21	0.06	0.01	625.24	0.17	0.01	631.30

Notes:

Project Start Year ->	2020
Project Length (months) ->	4
Total Project Area (acres) ->	2
Maximum Area Disturbed/Day (acres) ->	2
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	14	0	40	0	1,000	40
Grading/Excavation	13	0	10	0	1,600	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2020_SRErosion_Contract1

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.10	0.08	0.07	0.00	0.07	0.02	0.00	0.01	0.00	17.71	0.00	0.00	16.20
Grading/Excavation	0.45	3.58	4.34	0.45	0.23	0.22	0.25	0.21	0.05	0.01	607.53	0.17	0.01	556.51
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.45	3.58	4.34	0.45	0.23	0.22	0.25	0.21	0.05	0.01	607.53	0.17	0.01	556.51
Total (tons/construction project)	0.45	3.68	4.42	0.52	0.23	0.29	0.27	0.21	0.06	0.01	625.24	0.17	0.01	572.71

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2020_SRErosion_Contract1

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.57	36.07	7.32	20.40	0.40	20.00	4.47	0.31	4.16	0.06	5,366.10	1.17	0.06	5,412.50
Grading/Excavation	4.24	85.06	16.31	5.72	0.72	5.00	1.61	0.57	1.04	0.14	13,807.44	3.78	0.13	13,941.77
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	4.24	85.06	16.31	20.40	0.72	20.00	4.47	0.57	4.16	0.14	13,807.44	3.78	0.13	13,941.77
Total (tons/construction project)	0.19	3.86	0.74	0.32	0.03	0.29	0.09	0.03	0.06	0.01	625.24	0.17	0.01	631.30

Notes:

Project Start Year ->	2020
Project Length (months) ->	4
Total Project Area (acres) ->	2
Maximum Area Disturbed/Day (acres) ->	2
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	14	0	40	0	1,000	40
Grading/Excavation	13	0	10	0	1,600	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2020_SRErosion_Contract1

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.12	0.02	0.07	0.00	0.07	0.01	0.00	0.01	0.00	17.71	0.00	0.00	16.20
Grading/Excavation	0.19	3.74	0.72	0.25	0.03	0.22	0.07	0.03	0.05	0.01	607.53	0.17	0.01	556.51
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.19	3.74	0.72	0.25	0.03	0.22	0.07	0.03	0.05	0.01	607.53	0.17	0.01	556.51
Total (tons/construction project)	0.19	3.86	0.74	0.32	0.03	0.29	0.09	0.03	0.06	0.01	625.24	0.17	0.01	572.71

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with
yellow or blue background can be modified. Program defaults have a white background
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project type
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new proje

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2021_SRErosion_Contract2	
Construction Start Year	2021	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee constructi
Project Construction Time	4.30	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	1.30	miles
Total Project Area	13.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	83.00
	Grading/Excavation	15.00	77.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standa

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selecte

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F5

Construction Periods	User Override of Construction Months	m Calculated Months	User Override of Phase Starting Date	m Default Phase Starting Date
Grubbing/Land Clearing	0.30	0.43	8/1/2021	1/1/2021
Grading/Excavation	4.00	1.72	8/11/2021	1/11/2021
Drainage/Utilities/Sub-Grade	0.00	1.51		5/13/2021
Paving	0.00	0.65		5/13/2021
Totals (Months)	4			

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be us

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F6

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	40.00			6	240.00
Miles/round trip: Grading/Excavation	10.00			6	60.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.05	0.23	1.93	0.06	0.03	0.01	854.25	0.00	0.03	862.94
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	2.82	0.00	0.00	2.85
Pounds per day - Grading/Excavation	0.01	0.06	0.48	0.02	0.01	0.00	213.56	0.00	0.01	215.73
Tons per const. Period - Grading/Excavation	0.00	0.00	0.02	0.00	0.00	0.00	9.40	0.00	0.00	9.49
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.03	0.00	0.00	0.00	12.22	0.00	0.00	12.34

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F9

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D11

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearin	25		50	1,000.00
No. of employees: Grading/Excavatio	55		110	2,200.00
No. of employees: Drainage/Utilities/Sub-Grad			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Grading/Excavation (grams/mile	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Grading/Excavation (grams/trip	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Draining/Utilities/Sub-Grade (grams/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.14	2.43	0.24	0.10	0.04	0.01	802.76	0.02	0.01	806.23
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	2.65	0.00	0.00	2.66
Pounds per day - Grading/Excavation	0.32	5.36	0.54	0.23	0.10	0.02	1,766.07	0.04	0.02	1,773.70
Tons per const. Period - Grading/Excavation	0.01	0.24	0.02	0.01	0.00	0.00	77.71	0.00	0.00	78.04
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.01	0.24	0.02	0.01	0.00	0.00	80.36	0.00	0.00	80.70

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	4		40.00		160.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.32	0.01	0.00	0.00	142.37	0.00	0.00	143.82
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.47
Pounds per day - Grading/Excavation	0.04	0.15	1.29	0.04	0.02	0.01	569.50	0.00	0.02	575.29
Tons per const. Period - Grading/Excavation	0.00	0.01	0.06	0.00	0.00	0.00	25.06	0.00	0.00	25.31
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.01	0.06	0.00	0.00	0.00	25.53	0.00	0.00	25.79

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing	5.00		50.00	0.17	10.40	0.03
Fugitive Dust - Grading/Excavation	2.00		20.00	0.88	4.16	0.18
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selecte

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.42	20.25	13.33	0.65	0.59	0.03	3,096.13	1.00	0.03	3,129.51
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.36	3.68	3.17	0.17	0.17	0.01	623.04	0.03	0.00	625.23
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.34	1.81	2.16	0.08	0.08	0.00	295.88	0.03	0.00	297.39
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.23	1.95	2.06	0.15	0.14	0.00	246.18	0.08	0.00	248.83
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing		pounds per day	2.35	27.69	20.71	1.05	0.99	0.05	4,261.22	1.14	0.04	4,300.96
	Grubbing/Land Clearing		tons per phase	0.01	0.09	0.07	0.00	0.00	0.00	14.06	0.00	0.00	14.19

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Cranes	1.62	7.76	18.98	0.77	0.71	0.02	2,186.58	0.71	0.02	2,210.14
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Excavators	0.95	13.50	8.89	0.43	0.40	0.02	2,064.09	0.67	0.02	2,086.34
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.36	3.68	3.17	0.17	0.17	0.01	623.04	0.03	0.00	625.23
2.00			Model Default Tie	Graders	1.28	9.01	12.25	0.68	0.63	0.01	1,211.11	0.39	0.01	1,224.13
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Off-Highway Trucks	2.41	14.35	20.95	0.77	0.71	0.05	5,088.65	1.65	0.05	5,143.46
1.00			Model Default Tie	Other Construction Equipment	0.42	4.06	4.38	0.23	0.21	0.01	598.52	0.19	0.01	604.99
2.00			Model Default Tie	Other General Industrial Equipmen	0.43	3.95	3.92	0.27	0.25	0.01	496.04	0.16	0.00	501.39
1.00			Model Default Tie	Other Material Handling Equipmen	0.29	3.77	2.65	0.13	0.12	0.01	556.35	0.18	0.01	562.34
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Rubber Tired Dozers	3.54	29.08	36.56	1.67	1.54	0.04	3,446.74	1.11	0.03	3,483.77
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.34	1.81	2.16	0.08	0.08	0.00	295.88	0.03	0.00	297.39
4.00			Model Default Tie	Skid Steer Loaders	0.30	5.56	4.01	0.16	0.15	0.01	800.79	0.26	0.01	809.43
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.23	1.95	2.06	0.15	0.14	0.00	246.18	0.08	0.00	248.83
2.00			Model Default Tie	Tractors/Loaders/Backhoes	0.38	4.57	3.83	0.23	0.21	0.01	608.00	0.20	0.01	614.55
2.00			Model Default Tie	Trenchers	0.79	5.41	7.29	0.53	0.49	0.01	678.99	0.22	0.01	686.30
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grading/Excavation	pounds per day	13.34	108.44	131.09	6.28	5.80	0.20	18,900.96	5.88	0.17	19,098.29
	Grading/Excavation	tons per phase	0.59	4.77	5.77	0.28	0.26	0.01	831.64	0.26	0.01	840.32

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =			0.59	4.86	5.84	0.28	0.26	0.01	845.70	0.26	0.01	854.52

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F4

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		206		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		226		8
Crawler Tractors		208		8
Crushing/Proc. Equipment		85		8
Excavators		163		8
Forklifts		89		8
Generator Sets		84		8
Graders		175		8
Off-Highway Tractors		123		8
Off-Highway Trucks		400		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		167		8
Pavers		126		8
Paving Equipment		131		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		81		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		255		8
Rubber Tired Loaders		200		8
Scrapers		362		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		254		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		98		8
Trenchers		81		8
Welders		46		8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.56	30.40	23.20	51.22	1.22	50.00	11.46	1.06	10.40	0.06	6,060.60	1.16	0.08	6,113.94
Grading/Excavation	13.70	114.01	133.40	26.56	6.56	20.00	10.08	5.92	4.16	0.22	21,450.10	5.92	0.22	21,663.02
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.70	114.01	133.40	51.22	6.56	50.00	11.46	5.92	10.40	0.22	21,450.10	5.92	0.22	21,663.02
Total (tons/construction project)	0.61	5.12	5.95	1.34	0.29	1.05	0.48	0.26	0.22	0.01	963.80	0.26	0.01	973.35

Notes:

Project Start Year ->	2021
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.10	0.08	0.17	0.00	0.17	0.04	0.00	0.03	0.00	20.00	0.00	0.00	18.30
Grading/Excavation	0.60	5.02	5.87	1.17	0.29	0.88	0.44	0.26	0.18	0.01	943.80	0.26	0.01	864.71
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.60	5.02	5.87	1.17	0.29	0.88	0.44	0.26	0.18	0.01	943.80	0.26	0.01	864.71
Total (tons/construction project)	0.61	5.12	5.95	1.34	0.29	1.05	0.48	0.26	0.22	0.01	963.80	0.26	0.01	883.02

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.53	30.36	21.83	51.22	1.22	50.00	11.45	1.05	10.40	0.06	6,026.69	1.16	0.08	6,079.38
Grading/Excavation	13.69	113.98	132.32	26.56	6.56	20.00	10.07	5.91	4.16	0.22	21,423.45	5.92	0.22	21,635.86
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.69	113.98	132.32	51.22	6.56	50.00	11.45	5.91	10.40	0.22	21,423.45	5.92	0.22	21,635.86
Total (tons/construction project)	0.61	5.12	5.89	1.34	0.29	1.05	0.48	0.26	0.22	0.01	962.52	0.26	0.01	972.04

Notes:

Project Start Year ->	2021
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.10	0.07	0.17	0.00	0.17	0.04	0.00	0.03	0.00	19.89	0.00	0.00	18.20
Grading/Excavation	0.60	5.02	5.82	1.17	0.29	0.88	0.44	0.26	0.18	0.01	942.63	0.26	0.01	863.63
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.60	5.02	5.82	1.17	0.29	0.88	0.44	0.26	0.18	0.01	942.63	0.26	0.01	863.63
Total (tons/construction project)	0.61	5.12	5.89	1.34	0.29	1.05	0.48	0.26	0.22	0.01	962.52	0.26	0.01	881.83

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.58	36.02	7.92	50.45	0.45	50.00	10.73	0.33	10.40	0.06	6,026.69	1.16	0.08	6,079.38
Grading/Excavation	6.43	125.27	22.39	21.03	1.03	20.00	4.97	0.81	4.16	0.22	21,423.45	5.92	0.22	21,635.86
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	6.43	125.27	22.39	50.45	1.03	50.00	10.73	0.81	10.40	0.22	21,423.45	5.92	0.22	21,635.86
Total (tons/construction project)	0.29	5.63	1.01	1.09	0.05	1.05	0.25	0.04	0.22	0.01	962.52	0.26	0.01	972.04

Notes:

Project Start Year ->	2021
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.12	0.03	0.17	0.00	0.17	0.04	0.00	0.03	0.00	19.89	0.00	0.00	18.20
Grading/Excavation	0.28	5.51	0.99	0.93	0.05	0.88	0.22	0.04	0.18	0.01	942.63	0.26	0.01	863.63
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.28	5.51	0.99	0.93	0.05	0.88	0.22	0.04	0.18	0.01	942.63	0.26	0.01	863.63
Total (tons/construction project)	0.29	5.63	1.01	1.09	0.05	1.05	0.25	0.04	0.22	0.01	962.52	0.26	0.01	881.83

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with
yellow or blue background can be modified. Program defaults have a white background
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project type
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new proje

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2022_SRErosion_Contract2	
Construction Start Year	2022	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee constructi
Project Construction Time	4.30	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	1.30	miles
Total Project Area	13.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	83.00
	Grading/Excavation	15.00	77.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standa

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selecte

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F5

Construction Periods	User Override of Construction Months	m Calculated Months	User Override of Phase Starting Date	m Default Phase Starting Date
Grubbing/Land Clearing	0.30	0.43	8/1/2022	1/1/2022
Grading/Excavation	4.00	1.72	8/11/2022	1/11/2022
Drainage/Utilities/Sub-Grade	0.00	1.51		5/13/2022
Paving	0.00	0.65		5/13/2022
Totals (Months)		4		

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be us

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F6

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	40.00			6	240.00
Miles/round trip: Grading/Excavation	10.00			6	60.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.05	0.23	1.71	0.06	0.03	0.01	844.78	0.00	0.03	853.38
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	2.79	0.00	0.00	2.82
Pounds per day - Grading/Excavation	0.01	0.06	0.43	0.01	0.01	0.00	211.20	0.00	0.01	213.34
Tons per const. Period - Grading/Excavation	0.00	0.00	0.02	0.00	0.00	0.00	9.29	0.00	0.00	9.39
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.02	0.00	0.00	0.00	12.08	0.00	0.00	12.20

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F9

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D11

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearin	25		50	1,000.00
No. of employees: Grading/Excavatio	55		110	2,200.00
No. of employees: Drainage/Utilities/Sub-Grad			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Grading/Excavation (grams/mile	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Grading/Excavation (grams/trip	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Draining/Utilities/Sub-Grade (grams/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.13	2.25	0.22	0.10	0.04	0.01	776.62	0.02	0.01	779.74
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	2.56	0.00	0.00	2.57
Pounds per day - Grading/Excavation	0.29	4.95	0.48	0.23	0.10	0.02	1,708.55	0.04	0.02	1,715.42
Tons per const. Period - Grading/Excavation	0.01	0.22	0.02	0.01	0.00	0.00	75.18	0.00	0.00	75.48
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.01	0.23	0.02	0.01	0.00	0.00	77.74	0.00	0.00	78.05

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	4		40.00		160.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.29	0.01	0.00	0.00	140.80	0.00	0.00	142.23
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.47
Pounds per day - Grading/Excavation	0.03	0.15	1.14	0.04	0.02	0.01	563.19	0.00	0.02	568.92
Tons per const. Period - Grading/Excavation	0.00	0.01	0.05	0.00	0.00	0.00	24.78	0.00	0.00	25.03
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.01	0.05	0.00	0.00	0.00	25.24	0.00	0.00	25.50

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing	5.00		50.00	0.17	10.40	0.03
Fugitive Dust - Grading/Excavation	2.00		20.00	0.88	4.16	0.18
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selecte

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.25	20.15	11.00	0.53	0.49	0.03	3,095.03	1.00	0.03	3,128.40
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.33	3.68	2.93	0.15	0.15	0.01	623.04	0.03	0.00	625.17
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.34	1.81	2.16	0.08	0.08	0.00	295.88	0.03	0.00	297.39
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.19	1.92	1.80	0.12	0.11	0.00	246.18	0.08	0.00	248.83
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing		pounds per day	2.12	27.55	17.89	0.88	0.83	0.05	4,260.13	1.14	0.04	4,299.79
	Grubbing/Land Clearing		tons per phase	0.01	0.09	0.06	0.00	0.00	0.00	14.06	0.00	0.00	14.19

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Cranes	1.46	7.41	16.37	0.68	0.63	0.02	2,186.94	0.71	0.02	2,210.51
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Excavators	0.84	13.43	7.33	0.35	0.33	0.02	2,063.36	0.67	0.02	2,085.60
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.33	3.68	2.93	0.15	0.15	0.01	623.04	0.03	0.00	625.17
2.00			Model Default Tie	Graders	1.11	8.84	10.44	0.58	0.53	0.01	1,211.21	0.39	0.01	1,224.23
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Off-Highway Trucks	2.10	13.37	15.98	0.58	0.53	0.05	5,090.49	1.65	0.05	5,145.30
1.00			Model Default Tie	Other Construction Equipment	0.38	4.02	3.82	0.20	0.18	0.01	598.33	0.19	0.01	604.79
2.00			Model Default Tie	Other General Industrial Equipmen	0.36	3.87	3.38	0.21	0.19	0.01	496.04	0.16	0.00	501.39
1.00			Model Default Tie	Other Material Handling Equipmen	0.27	3.74	2.23	0.12	0.11	0.01	556.35	0.18	0.01	562.34
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Rubber Tired Dozers	3.42	28.03	34.60	1.58	1.46	0.04	3,449.07	1.12	0.03	3,486.12
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.34	1.81	2.16	0.08	0.08	0.00	295.88	0.03	0.00	297.39
4.00			Model Default Tie	Skid Steer Loaders	0.28	5.55	3.71	0.14	0.13	0.01	801.57	0.26	0.01	810.21
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.19	1.92	1.80	0.12	0.11	0.00	246.18	0.08	0.00	248.83
2.00			Model Default Tie	Tractors/Loaders/Backhoes	0.33	4.52	3.39	0.18	0.17	0.01	608.69	0.20	0.01	615.24
2.00			Model Default Tie	Trenchers	0.76	5.40	7.02	0.50	0.46	0.01	679.05	0.22	0.01	686.36
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00		N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grading/Excavation	pounds per day	12.16	105.57	115.15	5.48	5.06	0.20	18,906.18	5.88	0.17	19,103.48
	Grading/Excavation	tons per phase	0.54	4.65	5.07	0.24	0.22	0.01	831.87	0.26	0.01	840.55

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =			0.54	4.74	5.13	0.24	0.23	0.01	845.93	0.26	0.01	854.74

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F4

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		206		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		226		8
Crawler Tractors		208		8
Crushing/Proc. Equipment		85		8
Excavators		163		8
Forklifts		89		8
Generator Sets		84		8
Graders		175		8
Off-Highway Tractors		123		8
Off-Highway Trucks		400		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		167		8
Pavers		126		8
Paving Equipment		131		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		81		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		255		8
Rubber Tired Loaders		200		8
Scrapers		362		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		254		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		98		8
Trenchers		81		8
Welders		46		8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.31	30.06	20.10	51.06	1.06	50.00	11.30	0.90	10.40	0.06	6,022.32	1.16	0.08	6,075.14
Grading/Excavation	12.50	110.73	117.20	25.76	5.76	20.00	9.34	5.18	4.16	0.22	21,389.12	5.92	0.22	21,601.17
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	12.50	110.73	117.20	51.06	5.76	50.00	11.30	5.18	10.40	0.22	21,389.12	5.92	0.22	21,601.17
Total (tons/construction project)	0.56	4.97	5.22	1.30	0.26	1.05	0.45	0.23	0.22	0.01	960.99	0.26	0.01	970.50

Notes:

Project Start Year ->	2022
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.10	0.07	0.17	0.00	0.17	0.04	0.00	0.03	0.00	19.87	0.00	0.00	18.19
Grading/Excavation	0.55	4.87	5.16	1.13	0.25	0.88	0.41	0.23	0.18	0.01	941.12	0.26	0.01	862.24
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.55	4.87	5.16	1.13	0.25	0.88	0.41	0.23	0.18	0.01	941.12	0.26	0.01	862.24
Total (tons/construction project)	0.56	4.97	5.22	1.30	0.26	1.05	0.45	0.23	0.22	0.01	960.99	0.26	0.01	880.43

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.30	30.03	18.96	51.05	1.05	50.00	11.30	0.90	10.40	0.06	5,992.75	1.16	0.08	6,044.96
Grading/Excavation	12.49	110.71	116.30	25.75	5.75	20.00	9.33	5.17	4.16	0.22	21,365.88	5.91	0.21	21,577.46
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	12.49	110.71	116.30	51.05	5.75	50.00	11.30	5.17	10.40	0.22	21,365.88	5.91	0.21	21,577.46
Total (tons/construction project)	0.56	4.97	5.18	1.30	0.26	1.05	0.45	0.23	0.22	0.01	959.87	0.26	0.01	969.36

Notes:

Project Start Year ->	2022
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.10	0.06	0.17	0.00	0.17	0.04	0.00	0.03	0.00	19.78	0.00	0.00	18.10
Grading/Excavation	0.55	4.87	5.12	1.13	0.25	0.88	0.41	0.23	0.18	0.01	940.10	0.26	0.01	861.30
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.55	4.87	5.12	1.13	0.25	0.88	0.41	0.23	0.18	0.01	940.10	0.26	0.01	861.30
Total (tons/construction project)	0.56	4.97	5.18	1.30	0.26	1.05	0.45	0.23	0.22	0.01	959.87	0.26	0.01	879.39

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.57	35.83	7.87	50.45	0.45	50.00	10.73	0.33	10.40	0.06	5,992.75	1.16	0.08	6,044.96
Grading/Excavation	6.40	124.87	22.32	21.03	1.03	20.00	4.97	0.81	4.16	0.22	21,365.88	5.91	0.21	21,577.46
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	6.40	124.87	22.32	50.45	1.03	50.00	10.73	0.81	10.40	0.22	21,365.88	5.91	0.21	21,577.46
Total (tons/construction project)	0.29	5.61	1.01	1.09	0.05	1.05	0.25	0.04	0.22	0.01	959.87	0.26	0.01	969.36

Notes:

Project Start Year ->	2022
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.12	0.03	0.17	0.00	0.17	0.04	0.00	0.03	0.00	19.78	0.00	0.00	18.10
Grading/Excavation	0.28	5.49	0.98	0.93	0.05	0.88	0.22	0.04	0.18	0.01	940.10	0.26	0.01	861.30
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.28	5.49	0.98	0.93	0.05	0.88	0.22	0.04	0.18	0.01	940.10	0.26	0.01	861.30
Total (tons/construction project)	0.29	5.61	1.01	1.09	0.05	1.05	0.25	0.04	0.22	0.01	959.87	0.26	0.01	879.39

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**

Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with
yellow or blue background can be modified. Program defaults have a white background
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project type
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new proje

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2023_SRErosion_Contract2	
Construction Start Year	2023	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee constructi
Project Construction Time	4.30	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	1.30	miles
Total Project Area	13.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	83.00
	Grading/Excavation	15.00	77.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standa

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selecte

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F5

Construction Periods	User Override of Construction Months	m Calculated Months	User Override of Phase Starting Date	m Default Phase Starting Date
Grubbing/Land Clearing	0.30	0.43	8/1/2023	1/1/2023
Grading/Excavation	4.00	1.72	8/11/2023	1/11/2023
Drainage/Utilities/Sub-Grade	0.00	1.51		5/13/2023
Paving	0.00	0.65		5/13/2023
Totals (Months)		4		

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be us

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F6

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	40.00			6	240.00
Miles/round trip: Grading/Excavation	10.00			6	60.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.03	0.20	0.69	0.05	0.02	0.01	815.84	0.00	0.03	824.13
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	2.69	0.00	0.00	2.72
Pounds per day - Grading/Excavation	0.01	0.05	0.17	0.01	0.01	0.00	203.96	0.00	0.01	206.03
Tons per const. Period - Grading/Excavation	0.00	0.00	0.01	0.00	0.00	0.00	8.97	0.00	0.00	9.07
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.01	0.00	0.00	0.00	11.67	0.00	0.00	11.79

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F9

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D11

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearin	25		50	1,000.00
No. of employees: Grading/Excavatio	55		110	2,200.00
No. of employees: Drainage/Utilities/Sub-Grad			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.02	0.85	0.08	0.05	0.02	0.00	336.27	0.01	0.00	337.46
Grading/Excavation (grams/mile	0.02	0.85	0.08	0.05	0.02	0.00	336.27	0.01	0.00	337.46
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip	0.81	1.86	0.14	0.00	0.00	0.00	77.20	0.01	0.01	79.12
Grading/Excavation (grams/trip	0.81	1.86	0.14	0.00	0.00	0.00	77.20	0.01	0.01	79.12
Draining/Utilities/Sub-Grade (grams/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.12	2.09	0.20	0.10	0.04	0.01	749.87	0.01	0.01	752.68
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	2.47	0.00	0.00	2.48
Pounds per day - Grading/Excavation	0.27	4.59	0.43	0.23	0.09	0.02	1,649.71	0.03	0.02	1,655.90
Tons per const. Period - Grading/Excavation	0.01	0.20	0.02	0.01	0.00	0.00	72.59	0.00	0.00	72.86
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.01	0.21	0.02	0.01	0.00	0.00	75.06	0.00	0.00	75.34

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	4		40.00		160.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.03	0.12	0.01	0.00	0.00	135.97	0.00	0.00	137.35
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.45
Pounds per day - Grading/Excavation	0.02	0.13	0.46	0.04	0.01	0.01	543.89	0.00	0.02	549.42
Tons per const. Period - Grading/Excavation	0.00	0.01	0.02	0.00	0.00	0.00	23.93	0.00	0.00	24.17
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.01	0.02	0.00	0.00	0.00	24.38	0.00	0.00	24.63

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing	5.00		50.00	0.17	10.40	0.03
Fugitive Dust - Grading/Excavation	2.00		20.00	0.88	4.16	0.18
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selecte

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Excavators	1.17	20.17	9.59	0.47	0.43	0.03	3,095.59	1.00	0.03	3,128.96
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.31	3.67	2.72	0.13	0.13	0.01	623.04	0.03	0.00	625.12
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.34	1.81	2.16	0.08	0.08	0.00	295.88	0.03	0.00	297.39
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.18	1.92	1.71	0.11	0.10	0.00	246.18	0.08	0.00	248.83
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing		pounds per day	2.00	27.56	16.16	0.79	0.74	0.05	4,260.69	1.14	0.04	4,300.29
	Grubbing/Land Clearing		tons per phase	0.01	0.09	0.05	0.00	0.00	0.00	14.06	0.00	0.00	14.19

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Cranes	1.38	7.18	14.93	0.62	0.57	0.02	2,186.90	0.71	0.02	2,210.47
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Excavators	0.78	13.44	6.39	0.31	0.29	0.02	2,063.73	0.67	0.02	2,085.98
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.31	3.67	2.72	0.13	0.13	0.01	623.04	0.03	0.00	625.12
2.00			Model Default Tie	Graders	0.99	8.73	8.98	0.49	0.45	0.01	1,210.95	0.39	0.01	1,223.96
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Off-Highway Trucks	2.01	13.09	14.20	0.51	0.47	0.05	5,094.09	1.65	0.05	5,148.92
1.00			Model Default Tie	Other Construction Equipment	0.35	4.00	3.44	0.18	0.16	0.01	598.26	0.19	0.01	604.72
2.00			Model Default Tie	Other General Industrial Equipmen	0.32	3.85	3.09	0.18	0.16	0.01	496.04	0.16	0.00	501.39
1.00			Model Default Tie	Other Material Handling Equipmen	0.26	3.74	2.08	0.11	0.10	0.01	556.35	0.18	0.01	562.34
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tie	Rubber Tired Dozers	3.21	26.53	31.72	1.45	1.33	0.04	3,450.20	1.12	0.03	3,487.27
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tie	Signal Boards	0.34	1.81	2.16	0.08	0.08	0.00	295.88	0.03	0.00	297.39
4.00			Model Default Tie	Skid Steer Loaders	0.26	5.54	3.46	0.12	0.11	0.01	801.95	0.26	0.01	810.59
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.18	1.92	1.71	0.11	0.10	0.00	246.18	0.08	0.00	248.83
2.00			Model Default Tie	Tractors/Loaders/Backhoes	0.31	4.51	3.10	0.15	0.14	0.01	609.37	0.20	0.01	615.93
2.00			Model Default Tie	Trenchers	0.72	5.38	6.72	0.47	0.43	0.01	679.57	0.22	0.01	686.88
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grading/Excavation	pounds per day	11.41	103.38	104.69	4.92	4.55	0.20	18,912.48	5.88	0.17	19,109.78
	Grading/Excavation	tons per phase	0.50	4.55	4.61	0.22	0.20	0.01	832.15	0.26	0.01	840.83

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Paving	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =			0.51	4.64	4.66	0.22	0.20	0.01	846.21	0.26	0.01	855.02

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F4

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		206		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		226		8
Crawler Tractors		208		8
Crushing/Proc. Equipment		85		8
Excavators		163		8
Forklifts		89		8
Generator Sets		84		8
Graders		175		8
Off-Highway Tractors		123		8
Off-Highway Trucks		400		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		167		8
Pavers		126		8
Paving Equipment		131		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		81		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		255		8
Rubber Tired Loaders		200		8
Scrapers		362		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		254		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		98		8
Trenchers		81		8
Welders		46		8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2023_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.16	29.87	17.17	50.96	0.96	50.00	11.21	0.81	10.40	0.06	5,962.36	1.16	0.08	6,014.46
Grading/Excavation	11.71	108.15	105.76	25.20	5.20	20.00	8.82	4.66	4.16	0.22	21,310.04	5.91	0.21	21,521.14
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	11.71	108.15	105.76	50.96	5.20	50.00	11.21	4.66	10.40	0.22	21,310.04	5.91	0.21	21,521.14
Total (tons/construction project)	0.52	4.86	4.71	1.28	0.23	1.05	0.43	0.21	0.22	0.01	957.32	0.26	0.01	966.78

Notes:

Project Start Year ->	2023
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2023_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.10	0.06	0.17	0.00	0.17	0.04	0.00	0.03	0.00	19.68	0.00	0.00	18.01
Grading/Excavation	0.52	4.76	4.65	1.11	0.23	0.88	0.39	0.21	0.18	0.01	937.64	0.26	0.01	859.05
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.52	4.76	4.65	1.11	0.23	0.88	0.39	0.21	0.18	0.01	937.64	0.26	0.01	859.05
Total (tons/construction project)	0.52	4.86	4.71	1.28	0.23	1.05	0.43	0.21	0.22	0.01	957.32	0.26	0.01	877.06

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2023_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.16	29.87	17.10	50.96	0.96	50.00	11.21	0.81	10.40	0.06	5,961.27	1.16	0.08	6,013.06
Grading/Excavation	11.71	108.15	105.70	25.20	5.20	20.00	8.82	4.66	4.16	0.22	21,309.18	5.91	0.21	21,520.04
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	11.71	108.15	105.70	50.96	5.20	50.00	11.21	4.66	10.40	0.22	21,309.18	5.91	0.21	21,520.04
Total (tons/construction project)	0.52	4.86	4.71	1.28	0.23	1.05	0.43	0.21	0.22	0.01	957.28	0.26	0.01	966.72

Notes:

Project Start Year ->	2023
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2023_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.10	0.06	0.17	0.00	0.17	0.04	0.00	0.03	0.00	19.67	0.00	0.00	18.00
Grading/Excavation	0.52	4.76	4.65	1.11	0.23	0.88	0.39	0.20	0.18	0.01	937.60	0.26	0.01	859.01
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.52	4.76	4.65	1.11	0.23	0.88	0.39	0.20	0.18	0.01	937.60	0.26	0.01	859.01
Total (tons/construction project)	0.52	4.86	4.71	1.28	0.23	1.05	0.43	0.21	0.22	0.01	957.28	0.26	0.01	877.01

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2023_SRErosion_Contract2

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.56	35.67	7.73	50.45	0.45	50.00	10.73	0.33	10.40	0.06	5,961.27	1.16	0.08	6,013.06
Grading/Excavation	6.38	124.50	22.18	21.03	1.03	20.00	4.97	0.81	4.16	0.22	21,309.18	5.91	0.21	21,520.04
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	6.38	124.50	22.18	50.45	1.03	50.00	10.73	0.81	10.40	0.22	21,309.18	5.91	0.21	21,520.04
Total (tons/construction project)	0.29	5.60	1.00	1.09	0.05	1.05	0.25	0.04	0.22	0.01	957.28	0.26	0.01	966.72

Notes:

Project Start Year ->	2023
Project Length (months) ->	4
Total Project Area (acres) ->	13
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	83	0	240	0	1,000	40
Grading/Excavation	77	0	60	0	2,200	160
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2023_SRErosion_Contract2

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.12	0.03	0.17	0.00	0.17	0.04	0.00	0.03	0.00	19.67	0.00	0.00	18.00
Grading/Excavation	0.28	5.48	0.98	0.93	0.05	0.88	0.22	0.04	0.18	0.01	937.60	0.26	0.01	859.01
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.28	5.48	0.98	0.93	0.05	0.88	0.22	0.04	0.18	0.01	937.60	0.26	0.01	859.01
Total (tons/construction project)	0.29	5.60	1.00	1.09	0.05	1.05	0.25	0.04	0.22	0.01	957.28	0.26	0.01	877.01

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Sacramento Weir Widening
Case 1
Case 2

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2021 Sac Weir	
Construction Start Year	2021	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	8.80	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	1.30	miles
Total Project Area	482.00	acres
Maximum Area Disturbed/Day	40.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	1136.00
	Grading/Excavation	15.00	2148.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.80	0.88	3/1/2021	1/1/2021
Grading/Excavation	8.00	3.52	3/26/2021	1/26/2021
Drainage/Utilities/Sub-Grade	0.00	3.08		9/27/2021
Paving	0.00	1.32		9/27/2021
Totals (Months)	9		Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be used.	

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	1.20			76	91.20
Miles/round trip: Grading/Excavation	60.00			144	8640.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.02	0.09	0.73	0.02	0.01	0.00	324.61	0.00	0.01	327.92
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	2.86	0.00	0.00	2.89
Pounds per day - Grading/Excavation	1.94	8.24	69.44	2.19	0.98	0.29	30,752.89	0.09	1.04	31,065.78
Tons per const. Period - Grading/Excavation	0.17	0.73	6.11	0.19	0.09	0.03	2,706.25	0.01	0.09	2,733.79
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.17	0.73	6.12	0.19	0.09	0.03	2,709.11	0.01	0.09	2,736.67

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	40		80	1,600.00
No. of employees: Grading/Excavation	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Grading/Excavation (grams/mile)	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Grading/Excavation (grams/trip)	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.23	3.90	0.39	0.17	0.07	0.01	1,284.42	0.03	0.02	1,289.97
Tons per const. Period - Grubbing/Land Clearing	0.00	0.03	0.00	0.00	0.00	0.00	11.30	0.00	0.00	11.35
Pounds per day - Grading/Excavation	0.43	7.30	0.73	0.31	0.13	0.02	2,408.28	0.05	0.03	2,418.68
Tons per const. Period - Grading/Excavation	0.04	0.64	0.06	0.03	0.01	0.00	211.93	0.00	0.00	212.84
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.04	0.68	0.07	0.03	0.01	0.00	223.23	0.01	0.00	224.20

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	3		40.00		120.00
Grading/Excavation - Exhaust	3		40.00		120.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.03	0.11	0.96	0.03	0.01	0.00	427.12	0.00	0.01	431.47
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	3.76	0.00	0.00	3.80
Pounds per day - Grading/Excavation	0.03	0.11	0.96	0.03	0.01	0.00	427.12	0.00	0.01	431.47
Tons per const. Period - Grading/Excavation	0.00	0.01	0.08	0.00	0.00	0.00	37.59	0.00	0.00	37.97
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.09	0.00	0.00	0.00	41.35	0.00	0.00	41.77

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			400.00	3.52	83.20	0.73
Fugitive Dust - Grading/Excavation			400.00	35.20	83.20	7.32
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tier	Excavators	0.89	12.66	8.33	0.40	0.37	0.02	1,935.08	0.63	0.02	1,955.95
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.45	4.61	3.96	0.21	0.21	0.01	778.79	0.04	0.01	781.53
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00			Model Default Tier	Off-Highway Trucks	3.77	22.42	32.73	1.20	1.10	0.08	7,951.02	2.57	0.07	8,036.66
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		5.10	39.68	45.02	1.81	1.69	0.11	10,664.89	3.24	0.09	10,774.14
	Grubbing/Land Clearing	tons per phase		0.04	0.35	0.40	0.02	0.01	0.00	93.85	0.03	0.00	94.81

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Bore/Drill Rigs	0.30	2.42	3.52	0.11	0.10	0.01	1,062.70	0.34	0.01	1,074.19
4.00			Model Default Tier	Cement and Mortar Mixers	0.29	1.54	1.84	0.07	0.07	0.00	252.58	0.03	0.00	253.87
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cranes	2.02	9.70	23.72	0.96	0.89	0.03	2,733.23	0.88	0.02	2,762.68
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tier	Excavators	0.89	12.66	8.33	0.40	0.37	0.02	1,935.08	0.63	0.02	1,955.95
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Generator Sets	0.89	9.21	7.92	0.42	0.42	0.02	1,557.59	0.08	0.01	1,563.07
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00			Model Default Tier	Off-Highway Trucks	3.77	22.42	32.73	1.20	1.10	0.08	7,951.02	2.57	0.07	8,036.66
1.00			Model Default Tier	Other Construction Equipment	0.52	5.07	5.48	0.29	0.26	0.01	748.16	0.24	0.01	756.23
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Pumps	0.95	9.35	8.03	0.44	0.44	0.02	1,557.59	0.08	0.01	1,563.21
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.29	2.44	2.57	0.19	0.17	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.47	5.71	4.79	0.28	0.26	0.01	760.01	0.25	0.01	768.19
1.00			Model Default Tier	Trenchers	0.50	3.38	4.56	0.33	0.30	0.00	424.37	0.14	0.00	428.94
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	10.89	83.89	103.48	4.70	4.40	0.20	19,290.04	5.34	0.17	19,474.00
Grading/Excavation	tons per phase	0.96	7.38	9.11	0.41	0.39	0.02	1,697.52	0.47	0.01	1,713.71

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		1.00	7.73	9.50	0.43	0.40	0.02	1,791.37	0.50	0.02	1,808.52

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	5.38	43.78	47.11	402.03	2.03	400.00	84.98	1.78	83.20	0.13	12,701.05	3.27	0.14	12,823.49
Grading/Excavation	13.29	99.56	174.61	407.22	7.22	400.00	88.72	5.52	83.20	0.52	52,878.33	5.49	1.26	53,389.93
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.29	99.56	174.61	407.22	7.22	400.00	88.72	5.52	83.20	0.52	52,878.33	5.49	1.26	53,389.93
Total (tons/construction project)	1.22	9.15	15.78	39.37	0.65	38.72	8.56	0.50	8.05	0.05	4,765.06	0.51	0.11	4,811.16

Notes:

Project Start Year ->	2021
Project Length (months) ->	9
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	1136	0	91	0	1,600	120
Grading/Excavation	2,148	0	8,640	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.05	0.39	0.41	3.54	0.02	3.52	0.75	0.02	0.73	0.00	111.77	0.03	0.00	102.37
Grading/Excavation	1.17	8.76	15.37	35.84	0.64	35.20	7.81	0.49	7.32	0.05	4,653.29	0.48	0.11	4,262.28
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.17	8.76	15.37	35.84	0.64	35.20	7.81	0.49	7.32	0.05	4653.29	0.48	0.11	4,262.28
Total (tons/construction project)	1.22	9.15	15.78	39.37	0.65	38.72	8.56	0.50	8.05	0.05	4765.06	0.51	0.11	4,364.66

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	5.36	43.75	46.08	402.03	2.03	400.00	84.97	1.77	83.20	0.13	12,675.47	3.27	0.14	12,797.42
Grading/Excavation	12.62	98.34	131.80	406.99	6.99	400.00	88.50	5.30	83.20	0.51	51,817.48	5.45	1.19	52,308.61
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	12.62	98.34	131.80	406.99	6.99	400.00	88.50	5.30	83.20	0.51	51,817.48	5.45	1.19	52,308.61
Total (tons/construction project)	1.16	9.04	12.00	39.35	0.63	38.72	8.54	0.48	8.05	0.05	4,671.48	0.51	0.11	4,715.78

Notes:

Project Start Year ->	2021
Project Length (months) ->	9
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	1136	0	91	0	1,600	120
Grading/Excavation	2,148	0	8,640	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.05	0.38	0.41	3.54	0.02	3.52	0.75	0.02	0.73	0.00	111.54	0.03	0.00	102.17
Grading/Excavation	1.11	8.65	11.60	35.82	0.62	35.20	7.79	0.47	7.32	0.05	4,559.94	0.48	0.10	4,175.96
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.11	8.65	11.60	35.82	0.62	35.20	7.79	0.47	7.32	0.05	4559.94	0.48	0.10	4,175.96
Total (tons/construction project)	1.16	9.04	12.00	39.35	0.63	38.72	8.54	0.48	8.05	0.05	4671.48	0.51	0.11	4,278.12

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	3.59	67.86	7.72	400.55	0.55	400.00	83.59	0.39	83.20	0.13	12,675.47	3.27	0.14	12,797.42
Grading/Excavation	7.74	134.56	44.38	403.02	3.02	400.00	84.77	1.57	83.20	0.51	51,817.48	5.45	1.19	52,308.61
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	7.74	134.56	44.38	403.02	3.02	400.00	84.77	1.57	83.20	0.51	51,817.48	5.45	1.19	52,308.61
Total (tons/construction project)	0.71	12.44	3.97	38.99	0.27	38.72	8.20	0.14	8.05	0.05	4,671.48	0.51	0.11	4,715.78

Notes:

Project Start Year ->	2021
Project Length (months) ->	9
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	1136	0	91	0	1,600	120
Grading/Excavation	2,148	0	8,640	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.03	0.60	0.07	3.52	0.00	3.52	0.74	0.00	0.73	0.00	111.54	0.03	0.00	102.17
Grading/Excavation	0.68	11.84	3.91	35.47	0.27	35.20	7.46	0.14	7.32	0.05	4,559.94	0.48	0.10	4,175.96
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.68	11.84	3.91	35.47	0.27	35.20	7.46	0.14	7.32	0.05	4559.94	0.48	0.10	4,175.96
Total (tons/construction project)	0.71	12.44	3.97	38.99	0.27	38.72	8.20	0.14	8.05	0.05	4671.48	0.51	0.11	4,278.12

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2022 Sac Weir	
Construction Start Year	2022	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	12.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	1.30	miles
Total Project Area	482.00	acres
Maximum Area Disturbed/Day	40.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	0.00
	Grading/Excavation	15.00	94.00	163.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing	15.00	0.00	0.00
	Grading/Excavation	15.00	88.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	1.20		1/1/2022
Grading/Excavation	12.00	4.80		1/1/2022
Drainage/Utilities/Sub-Grade	0.00	4.20		1/1/2023
Paving	0.00	1.80		1/1/2023
Totals (Months)	12			

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation	61.00			18	1098.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.24	1.04	7.82	0.27	0.12	0.04	3,864.88	0.01	0.13	3,904.21
Tons per const. Period - Grading/Excavation	0.03	0.14	1.03	0.04	0.02	0.00	510.16	0.00	0.02	515.36
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.03	0.14	1.03	0.04	0.02	0.00	510.16	0.00	0.02	515.36

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation	60.00			6	360.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.08	0.34	2.57	0.09	0.04	0.01	1,267.17	0.00	0.04	1,280.07
Tons per const. Period - Grading/Excavation	0.01	0.04	0.34	0.01	0.01	0.00	167.27	0.00	0.01	168.97
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.04	0.34	0.01	0.01	0.00	167.27	0.00	0.01	168.97

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	0		0	0.00
No. of employees: Grading/Excavation	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.40	6.75	0.66	0.31	0.13	0.02	2,329.85	0.05	0.03	2,339.21
Tons per const. Period - Grading/Excavation	0.05	0.89	0.09	0.04	0.02	0.00	307.54	0.01	0.00	308.78
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.05	0.89	0.09	0.04	0.02	0.00	307.54	0.01	0.00	308.78

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	3		40.00		120.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.03	0.11	0.86	0.03	0.01	0.00	422.39	0.00	0.01	426.69
Tons per const. Period - Grading/Excavation	0.00	0.01	0.11	0.00	0.00	0.00	55.76	0.00	0.00	56.32
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.11	0.00	0.00	0.00	55.76	0.00	0.00	56.32

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			400.00	52.80	83.20	10.98
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cement and Mortar Mixers	0.29	1.54	1.84	0.07	0.07	0.00	252.58	0.03	0.00	253.87
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cranes	1.82	9.26	20.47	0.85	0.78	0.03	2,733.67	0.88	0.02	2,763.14
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tier	Excavators	0.78	12.59	6.87	0.33	0.31	0.02	1,934.40	0.63	0.02	1,955.25
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Generator Sets	0.82	9.19	7.32	0.37	0.37	0.02	1,557.59	0.07	0.01	1,562.93
1.00			Model Default Tier	Graders	0.70	5.53	6.52	0.36	0.33	0.01	757.00	0.24	0.01	765.14
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00			Model Default Tier	Off-Highway Trucks	3.29	20.89	24.96	0.91	0.83	0.08	7,953.90	2.57	0.07	8,039.53
1.00			Model Default Tier	Other Construction Equipment	0.47	5.03	4.77	0.25	0.23	0.01	747.91	0.24	0.01	755.99
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Other Material Handling Equipment	0.33	4.68	2.79	0.15	0.14	0.01	695.43	0.22	0.01	702.93
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Paving Equipment	0.22	3.16	2.16	0.11	0.10	0.01	489.35	0.16	0.00	494.63
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Pumps	0.44	4.66	3.71	0.19	0.19	0.01	778.79	0.04	0.01	781.53
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Rubber Tired Dozers	1.07	8.76	10.81	0.49	0.45	0.01	1,077.83	0.35	0.01	1,089.41
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Scrapers	1.01	7.86	11.03	0.43	0.40	0.02	1,812.83	0.59	0.02	1,832.37
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Surfacing Equipment	0.22	1.95	2.62	0.10	0.09	0.01	790.45	0.26	0.01	798.98
1.00			Model Default Tier	Sweepers/Scrubbers	0.24	2.40	2.25	0.15	0.14	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.42	5.65	4.23	0.23	0.21	0.01	760.86	0.25	0.01	769.05
1.00			Model Default Tier	Trenchers	0.47	3.37	4.39	0.31	0.29	0.00	424.41	0.14	0.00	428.97
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	12.60	106.51	116.74	5.30	4.93	0.24	23,074.73	6.77	0.20	23,304.77
Grading/Excavation	tons per phase	1.66	14.06	15.41	0.70	0.65	0.03	3,045.86	0.89	0.03	3,076.23

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		1.66	14.06	15.41	0.70	0.65	0.03	3,045.86	0.89	0.03	3,076.23

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	13.34	114.76	128.64	406.00	6.00	400.00	88.43	5.23	83.20	0.32	30,959.02	6.83	0.42	31,254.95
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.34	114.76	128.64	406.00	6.00	400.00	88.43	5.23	83.20	0.32	30,959.02	6.83	0.42	31,254.95
Total (tons/construction project)	1.76	15.15	16.98	53.59	0.79	52.80	11.67	0.69	10.98	0.04	4,086.59	0.90	0.06	4,125.65

Notes:

Project Start Year ->	2022
Project Length (months) ->	12
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	40
Grading/Excavation	257	88	1,098	360	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	1.76	15.15	16.98	53.59	0.79	52.80	11.67	0.69	10.98	0.04	4,086.59	0.90	0.06	3,742.77
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.76	15.15	16.98	53.59	0.79	52.80	11.67	0.69	10.98	0.04	4086.59	0.90	0.06	3,742.77
Total (tons/construction project)	1.76	15.15	16.98	53.59	0.79	52.80	11.67	0.69	10.98	0.04	4086.59	0.90	0.06	3,742.77

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	13.24	114.56	122.24	405.97	5.97	400.00	88.40	5.20	83.20	0.31	30,792.39	6.82	0.41	31,084.88
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.24	114.56	122.24	405.97	5.97	400.00	88.40	5.20	83.20	0.31	30,792.39	6.82	0.41	31,084.88
Total (tons/construction project)	1.75	15.12	16.14	53.59	0.79	52.80	11.67	0.69	10.98	0.04	4,064.59	0.90	0.05	4,103.20

Notes:

Project Start Year ->	2022
Project Length (months) ->	12
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	40
Grading/Excavation	257	88	1,098	360	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	1.75	15.12	16.14	53.59	0.79	52.80	11.67	0.69	10.98	0.04	4,064.59	0.90	0.05	3,722.40
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.75	15.12	16.14	53.59	0.79	52.80	11.67	0.69	10.98	0.04	4064.59	0.90	0.05	3,722.40
Total (tons/construction project)	1.75	15.12	16.14	53.59	0.79	52.80	11.67	0.69	10.98	0.04	4064.59	0.90	0.05	3,722.40

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022 Sac Weir

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	7.88	150.77	24.02	401.51	1.51	400.00	84.25	1.05	83.20	0.31	30,792.39	6.82	0.41	31,084.88
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	7.88	150.77	24.02	401.51	1.51	400.00	84.25	1.05	83.20	0.31	30,792.39	6.82	0.41	31,084.88
Total (tons/construction project)	1.04	19.90	3.17	53.00	0.20	52.80	11.12	0.14	10.98	0.04	4,064.59	0.90	0.05	4,103.20

Notes:

Project Start Year ->	2022
Project Length (months) ->	12
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	40
Grading/Excavation	257	88	1,098	360	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022 Sac Weir

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	1.04	19.90	3.17	53.00	0.20	52.80	11.12	0.14	10.98	0.04	4,064.59	0.90	0.05	3,722.40
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.04	19.90	3.17	53.00	0.20	52.80	11.12	0.14	10.98	0.04	4064.59	0.90	0.05	3,722.40
Total (tons/construction project)	1.04	19.90	3.17	53.00	0.20	52.80	11.12	0.14	10.98	0.04	4064.59	0.90	0.05	3,722.40

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**

Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2023 Sac Weir	
Construction Start Year	2023	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	10.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	1.30	miles
Total Project Area	482.00	acres
Maximum Area Disturbed/Day	40.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	0.00
	Grading/Excavation	15.00	9.00	2905.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing	15.00	0.00	0.00
	Grading/Excavation	15.00	0.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	1.00		1/1/2023
Grading/Excavation	10.00	4.00		1/1/2023
Drainage/Utilities/Sub-Grade	0.00	3.50		11/2/2023
Paving	0.00	1.50		11/2/2023
Totals (Months)		10		

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	0.00			0	0.00
Miles/round trip: Grading/Excavation	1.40			195	273.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.04	0.22	0.79	0.06	0.02	0.01	928.01	0.00	0.03	937.45
Tons per const. Period - Grading/Excavation	0.00	0.02	0.09	0.01	0.00	0.00	102.08	0.00	0.00	103.12
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.02	0.09	0.01	0.00	0.00	102.08	0.00	0.00	103.12

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	0		0	0.00
No. of employees: Grading/Excavation	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	0.85	0.08	0.05	0.02	0.00	336.27	0.01	0.00	337.46
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.81	1.86	0.14	0.00	0.00	0.00	77.20	0.01	0.01	79.12
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.37	6.26	0.59	0.31	0.13	0.02	2,249.60	0.04	0.02	2,258.05
Tons per const. Period - Grading/Excavation	0.04	0.69	0.07	0.03	0.01	0.00	247.46	0.00	0.00	248.39
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.04	0.69	0.07	0.03	0.01	0.00	247.46	0.00	0.00	248.39

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust					0.00
Grading/Excavation - Exhaust	3		40.00		120.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.02	0.10	0.35	0.03	0.01	0.00	407.92	0.00	0.01	412.06
Tons per const. Period - Grading/Excavation	0.00	0.01	0.04	0.00	0.00	0.00	44.87	0.00	0.00	45.33
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.04	0.00	0.00	0.00	44.87	0.00	0.00	45.33

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			400.00	44.00	83.20	9.15
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Cement and Mortar Mixers	0.15	0.77	0.92	0.04	0.04	0.00	126.29	0.01	0.00	126.93
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Cranes	0.86	4.49	9.33	0.39	0.36	0.01	1,366.81	0.44	0.01	1,381.54
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tier	Excavators	0.73	12.60	5.99	0.29	0.27	0.02	1,934.75	0.63	0.02	1,955.60
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Generator Sets	0.76	9.17	6.79	0.32	0.32	0.02	1,557.59	0.07	0.01	1,562.79
1.00			Model Default Tier	Graders	0.62	5.46	5.61	0.31	0.28	0.01	756.84	0.24	0.01	764.97
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00			Model Default Tier	Off-Highway Trucks	3.13	20.45	22.19	0.80	0.74	0.08	7,959.51	2.57	0.07	8,045.19
1.00			Model Default Tier	Other Construction Equipment	0.44	5.00	4.30	0.22	0.21	0.01	747.83	0.24	0.01	755.90
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Other Material Handling Equipment	0.32	4.67	2.61	0.14	0.13	0.01	695.43	0.22	0.01	702.93
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Paving Equipment	0.21	3.17	1.99	0.10	0.09	0.01	489.35	0.16	0.00	494.63
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Pumps	0.41	4.66	3.44	0.17	0.17	0.01	778.79	0.04	0.01	781.43
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Rubber Tired Dozers	1.00	8.29	9.91	0.45	0.42	0.01	1,078.19	0.35	0.01	1,089.77
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Scrapers	0.97	7.57	10.21	0.40	0.37	0.02	1,812.63	0.59	0.02	1,832.16
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Surfacing Equipment	0.22	1.95	2.48	0.09	0.09	0.01	790.19	0.26	0.01	798.72
1.00			Model Default Tier	Sweepers/Scrubbers	0.23	2.40	2.13	0.14	0.13	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.38	5.64	3.88	0.19	0.18	0.01	761.71	0.25	0.01	769.91
1.00			Model Default Tier	Trenchers	0.45	3.36	4.20	0.29	0.27	0.00	424.73	0.14	0.00	429.30
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grading/Excavation	pounds per day		10.88	99.65	95.98	4.35	4.04	0.22	21,588.36	6.30	0.19	21,802.82
Grading/Excavation	tons per phase		1.20	10.96	10.56	0.48	0.44	0.02	2,374.72	0.69	0.02	2,398.31

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Drainage/Utilities/Sub-Grade	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>			1.20	10.96	10.56	0.48	0.44	0.02	2,374.72	0.69	0.02	2,398.31

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2023 Sac Weir

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	11.31	106.23	97.70	404.74	4.74	400.00	87.41	4.21	83.20	0.26	25,173.90	6.35	0.26	25,410.39
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	11.31	106.23	97.70	404.74	4.74	400.00	87.41	4.21	83.20	0.26	25,173.90	6.35	0.26	25,410.39
Total (tons/construction project)	1.24	11.69	10.75	44.52	0.52	44.00	9.61	0.46	9.15	0.03	2,769.13	0.70	0.03	2,795.14

Notes:

Project Start Year ->	2023
Project Length (months) ->	10
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	2,914	0	273	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2023 Sac Weir

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	1.24	11.69	10.75	44.52	0.52	44.00	9.61	0.46	9.15	0.03	2,769.13	0.70	0.03	2,535.74
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.24	11.69	10.75	44.52	0.52	44.00	9.61	0.46	9.15	0.03	2769.13	0.70	0.03	2,535.74
Total (tons/construction project)	1.24	11.69	10.75	44.52	0.52	44.00	9.61	0.46	9.15	0.03	2769.13	0.70	0.03	2,535.74

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2023 Sac Weir

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	11.31	106.23	97.61	404.74	4.74	400.00	87.41	4.21	83.20	0.26	25,172.37	6.35	0.26	25,408.42
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	11.31	106.23	97.61	404.74	4.74	400.00	87.41	4.21	83.20	0.26	25,172.37	6.35	0.26	25,408.42
Total (tons/construction project)	1.24	11.69	10.74	44.52	0.52	44.00	9.61	0.46	9.15	0.03	2,768.96	0.70	0.03	2,794.93

Notes:

Project Start Year ->	2023
Project Length (months) ->	10
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	2,914	0	273	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2023 Sac Weir

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	1.24	11.69	10.74	44.52	0.52	44.00	9.61	0.46	9.15	0.03	2,768.96	0.70	0.03	2,535.54
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.24	11.69	10.74	44.52	0.52	44.00	9.61	0.46	9.15	0.03	2768.96	0.70	0.03	2,535.54
Total (tons/construction project)	1.24	11.69	10.74	44.52	0.52	44.00	9.61	0.46	9.15	0.03	2768.96	0.70	0.03	2,535.54

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2023 Sac Weir

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	7.17	140.45	18.11	401.13	1.13	400.00	84.04	0.84	83.20	0.26	25,172.37	6.35	0.26	25,408.42
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	7.17	140.45	18.11	401.13	1.13	400.00	84.04	0.84	83.20	0.26	25,172.37	6.35	0.26	25,408.42
Total (tons/construction project)	0.79	15.45	1.99	44.12	0.12	44.00	9.24	0.09	9.15	0.03	2,768.96	0.70	0.03	2,794.93

Notes:

Project Start Year ->	2023
Project Length (months) ->	10
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	2,914	0	273	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2023 Sac Weir

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.79	15.45	1.99	44.12	0.12	44.00	9.24	0.09	9.15	0.03	2,768.96	0.70	0.03	2,535.54
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.79	15.45	1.99	44.12	0.12	44.00	9.24	0.09	9.15	0.03	2768.96	0.70	0.03	2,535.54
Total (tons/construction project)	0.79	15.45	1.99	44.12	0.12	44.00	9.24	0.09	9.15	0.03	2768.96	0.70	0.03	2,535.54

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2021 Sac Weir	
Construction Start Year	2021	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	8.80	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	1.30	miles
Total Project Area	482.00	acres
Maximum Area Disturbed/Day	40.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	1136.00
	Grading/Excavation	15.00	2173.00	244.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.80	0.88	5/1/2021	1/1/2021
Grading/Excavation	8.00	3.52	5/26/2021	1/26/2021
Drainage/Utilities/Sub-Grade	0.00	3.08		9/27/2021
Paving	0.00	1.32		9/27/2021
Totals (Months)	9		Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be used.	

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	1.20			76	91.20
Miles/round trip: Grading/Excavation	60.00			162	9720.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.60	0.11	0.05	0.02	1,612.71	0.00	0.05	1,629.12
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.02	0.09	0.73	0.02	0.01	0.00	324.61	0.00	0.01	327.92
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	2.86	0.00	0.00	2.89
Pounds per day - Grading/Excavation	2.17	9.26	77.23	2.45	1.10	0.33	34,558.67	0.10	1.17	34,910.29
Tons per const. Period - Grading/Excavation	0.19	0.82	6.80	0.22	0.10	0.03	3,041.16	0.01	0.10	3,072.11
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.19	0.82	6.80	0.22	0.10	0.03	3,044.02	0.01	0.10	3,074.99

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.60	0.11	0.05	0.02	1,612.71	0.00	0.05	1,629.12
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	40		80	1,600.00
No. of employees: Grading/Excavation	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Grading/Excavation (grams/mile)	0.02	0.98	0.10	0.05	0.02	0.00	358.86	0.01	0.00	360.29
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Grading/Excavation (grams/trip)	0.92	2.26	0.17	0.00	0.00	0.00	81.66	0.01	0.01	84.09
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.23	3.90	0.39	0.17	0.07	0.01	1,284.42	0.03	0.02	1,289.97
Tons per const. Period - Grubbing/Land Clearing	0.00	0.03	0.00	0.00	0.00	0.00	11.30	0.00	0.00	11.35
Pounds per day - Grading/Excavation	0.43	7.25	0.72	0.31	0.13	0.02	2,400.44	0.05	0.03	2,410.74
Tons per const. Period - Grading/Excavation	0.04	0.64	0.06	0.03	0.01	0.00	211.24	0.00	0.00	212.14
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.04	0.67	0.07	0.03	0.01	0.00	222.54	0.00	0.00	223.50

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	3		40.00		120.00
Grading/Excavation - Exhaust	3		40.00		120.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.60	0.11	0.05	0.02	1,612.71	0.00	0.05	1,629.12
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.03	0.11	0.96	0.03	0.01	0.00	427.12	0.00	0.01	431.47
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	3.76	0.00	0.00	3.80
Pounds per day - Grading/Excavation	0.03	0.11	0.95	0.03	0.01	0.00	426.65	0.00	0.01	430.99
Tons per const. Period - Grading/Excavation	0.00	0.01	0.08	0.00	0.00	0.00	37.55	0.00	0.00	37.93
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.09	0.00	0.00	0.00	41.30	0.00	0.00	41.72

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			400.00	3.52	83.20	0.73
Fugitive Dust - Grading/Excavation			400.00	35.20	83.20	7.32
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tier	Excavators	0.89	12.66	8.33	0.40	0.37	0.02	1,935.08	0.63	0.02	1,955.95
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.45	4.61	3.96	0.21	0.21	0.01	778.79	0.04	0.01	781.53
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00			Model Default Tier	Off-Highway Trucks	3.77	22.42	32.73	1.20	1.10	0.08	7,951.02	2.57	0.07	8,036.66
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		5.10	39.68	45.02	1.81	1.69	0.11	10,664.89	3.24	0.09	10,774.14
	Grubbing/Land Clearing	tons per phase		0.04	0.35	0.40	0.02	0.01	0.00	93.85	0.03	0.00	94.81

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Bore/Drill Rigs	0.30	2.41	3.43	0.10	0.10	0.01	1,062.87	0.34	0.01	1,074.36
4.00			Model Default Tier	Cement and Mortar Mixers	0.29	1.54	1.84	0.07	0.07	0.00	252.58	0.03	0.00	253.87
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cranes	2.00	9.66	23.40	0.95	0.88	0.03	2,733.27	0.88	0.02	2,762.73
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tier	Excavators	0.88	12.65	8.19	0.40	0.36	0.02	1,935.01	0.63	0.02	1,955.88
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Generator Sets	0.89	9.21	7.86	0.41	0.41	0.02	1,557.59	0.08	0.01	1,563.05
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00			Model Default Tier	Off-Highway Trucks	3.72	22.26	31.96	1.17	1.08	0.08	7,951.31	2.57	0.07	8,036.95
1.00			Model Default Tier	Other Construction Equipment	0.52	5.06	5.41	0.28	0.26	0.01	748.13	0.24	0.01	756.21
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Pumps	0.94	9.35	7.96	0.44	0.44	0.02	1,557.59	0.08	0.01	1,563.19
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.28	2.43	2.54	0.19	0.17	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.47	5.70	4.73	0.28	0.25	0.01	760.09	0.25	0.01	768.27
1.00			Model Default Tier	Trenchers	0.49	3.38	4.54	0.33	0.30	0.00	424.37	0.14	0.00	428.94
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	10.78	83.67	101.85	4.62	4.33	0.20	19,290.54	5.34	0.17	19,474.48
Grading/Excavation	tons per phase	0.95	7.36	8.96	0.41	0.38	0.02	1,697.57	0.47	0.01	1,713.75

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		0.99	7.71	9.36	0.42	0.40	0.02	1,791.42	0.50	0.02	1,808.57

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	5.38	43.78	47.11	402.03	2.03	400.00	84.98	1.78	83.20	0.13	12,701.05	3.27	0.14	12,823.49
Grading/Excavation	13.40	100.30	180.76	407.42	7.42	400.00	88.77	5.57	83.20	0.56	56,676.30	5.49	1.39	57,226.49
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.40	100.30	180.76	407.42	7.42	400.00	88.77	5.57	83.20	0.56	56,676.30	5.49	1.39	57,226.49
Total (tons/construction project)	1.23	9.21	16.32	39.39	0.67	38.72	8.56	0.51	8.05	0.05	5,099.28	0.51	0.12	5,148.78

Notes:

Project Start Year ->	2021
Project Length (months) ->	9
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	1136	0	91	0	1,600	120
Grading/Excavation	2,417	0	9,720	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.05	0.39	0.41	3.54	0.02	3.52	0.75	0.02	0.73	0.00	111.77	0.03	0.00	102.37
Grading/Excavation	1.18	8.83	15.91	35.85	0.65	35.20	7.81	0.49	7.32	0.05	4,987.51	0.48	0.12	4,568.57
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.18	8.83	15.91	35.85	0.65	35.20	7.81	0.49	7.32	0.05	4987.51	0.48	0.12	4,568.57
Total (tons/construction project)	1.23	9.21	16.32	39.39	0.67	38.72	8.56	0.51	8.05	0.05	5099.28	0.51	0.12	4,670.94

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	5.36	43.75	46.08	402.03	2.03	400.00	84.97	1.77	83.20	0.13	12,675.47	3.27	0.14	12,797.42
Grading/Excavation	12.66	98.94	133.48	407.16	7.16	400.00	88.53	5.33	83.20	0.55	55,499.91	5.46	1.31	56,027.27
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	12.66	98.94	133.48	407.16	7.16	400.00	88.53	5.33	83.20	0.55	55,499.91	5.46	1.31	56,027.27
Total (tons/construction project)	1.16	9.09	12.15	39.37	0.65	38.72	8.54	0.48	8.05	0.05	4,995.54	0.51	0.12	5,043.02

Notes:

Project Start Year ->	2021
Project Length (months) ->	9
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	1136	0	91	0	1,600	120
Grading/Excavation	2,417	0	9,720	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.05	0.38	0.41	3.54	0.02	3.52	0.75	0.02	0.73	0.00	111.54	0.03	0.00	102.17
Grading/Excavation	1.11	8.71	11.75	35.83	0.63	35.20	7.79	0.47	7.32	0.05	4,883.99	0.48	0.12	4,472.83
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.11	8.71	11.75	35.83	0.63	35.20	7.79	0.47	7.32	0.05	4883.99	0.48	0.12	4,472.83
Total (tons/construction project)	1.16	9.09	12.15	39.37	0.65	38.72	8.54	0.48	8.05	0.05	4995.54	0.51	0.12	4,575.00

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2021 Sac Weir Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	3.59	67.86	7.72	400.55	0.55	400.00	83.59	0.39	83.20	0.13	12,675.47	3.27	0.14	12,797.42
Grading/Excavation	7.90	135.39	47.69	403.26	3.26	400.00	84.87	1.67	83.20	0.55	55,499.91	5.46	1.31	56,027.27
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	7.90	135.39	47.69	403.26	3.26	400.00	84.87	1.67	83.20	0.55	55,499.91	5.46	1.31	56,027.27
Total (tons/construction project)	0.73	12.51	4.26	39.01	0.29	38.72	8.20	0.15	8.05	0.05	4,995.54	0.51	0.12	5,043.02

Notes:

Project Start Year ->	2021
Project Length (months) ->	9
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	1136	0	91	0	1,600	120
Grading/Excavation	2,417	0	9,720	0	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2021 Sac Weir Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.03	0.60	0.07	3.52	0.00	3.52	0.74	0.00	0.73	0.00	111.54	0.03	0.00	102.17
Grading/Excavation	0.69	11.91	4.20	35.49	0.29	35.20	7.47	0.15	7.32	0.05	4,883.99	0.48	0.12	4,472.83
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.69	11.91	4.20	35.49	0.29	35.20	7.47	0.15	7.32	0.05	4883.99	0.48	0.12	4,472.83
Total (tons/construction project)	0.73	12.51	4.26	39.01	0.29	38.72	8.20	0.15	8.05	0.05	4995.54	0.51	0.12	4,575.00

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Barge Emissions Calculations
ARCF 2016
Sacramento Weir - 2021

Basic Assumptions	
CY per Barge[1]	909
CY Imported	25,000
Miles/ hr per barge	5
Extra Empty Trips	2
Total Hrs per Day	10
lbs/ tons	2000
lbs/MT	2204.62

	San Rafael to Rio Vista (in SFNA)	San Rafael to Rio Vista (in BAAQMD)	Rio Vista to Sac Weir (in SFNA)
No. of Barge in Tow	4	4	1
Miles (one-way)	10.4	45	47
Total Tow-Hours	**18**	**80**	**277**

	PM10	PM2.5	NOx	ROG	CO	SO2	CO2	CH4	N2O	CO2e (MT)
Two-Engine Push Boat Emissions (lb/hr)	1.61	1.44	35.71	2.09	8.97	0.01	1417.70	0.06	0.01	1422.56
Tug Boat Emissions (lb/hr)	0.37	0.33	6.47	0.54	1.90	0.00	456.06	0.02	0.00	457.63
Total Emissions for Push Boat - In SFNA (Tons)	**0.01**	**0.01**	**0.33**	**0.02**	**0.08**	**0.00**	**13.09**	**0.00**	**0.00**	**11.91**
Total Emission for Push Boat- In BAAQMD (Tons)[2]	**0.06**	**0.06**	**1.43**	**0.08**	**0.36**	**0.00**	**56.62**	**0.00**	**0.00**	**51.54**
Total Emissions for Tug Boat - In SFNA (Tons)	**0.05**	**0.05**	**0.90**	**0.08**	**0.26**	**0.00**	**63.23**	**0.00**	**0.00**	**57.56**
Sum of Emissions in SFNA (Tons)	**0.07**	**0.06**	**1.23**	**0.09**	**0.35**	**0.00**	**76.32**	**0.00**	**0.00**	**69.5**

Notes: [1] https://ihsmarkit.com/country-industry-forecasting.html?ID=106593483 , one barge has the capacity of 1500 tons and assuming 1.65 tons/cy of quarry rock

[2] BAAQMD NOx Threshold is 54 lb/day (Not relevent to General Conformity)

Road Construction Emissions Model **Version 8.1.0**
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	2022 Sac Weir	
Construction Start Year	2022	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	12.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	1.30	miles
Total Project Area	482.00	acres
Maximum Area Disturbed/Day	40.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	0.00
	Grading/Excavation	15.00	88.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing	15.00	0.00	0.00
	Grading/Excavation	15.00	77.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	1.20		1/1/2022
Grading/Excavation	12.00	4.80		1/1/2022
Drainage/Utilities/Sub-Grade	0.00	4.20		1/1/2023
Paving	0.00	1.80		1/1/2023
Totals (Months)		12		

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation	60.00			6	360.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.08	0.34	2.57	0.09	0.04	0.01	1,267.17	0.00	0.04	1,280.07
Tons per const. Period - Grading/Excavation	0.01	0.04	0.34	0.01	0.01	0.00	167.27	0.00	0.01	168.97
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.04	0.34	0.01	0.01	0.00	167.27	0.00	0.01	168.97

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation	60.00			6	360.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.08	0.34	2.57	0.09	0.04	0.01	1,267.17	0.00	0.04	1,280.07
Tons per const. Period - Grading/Excavation	0.01	0.04	0.34	0.01	0.01	0.00	167.27	0.00	0.01	168.97
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.04	0.34	0.01	0.01	0.00	167.27	0.00	0.01	168.97

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	0		0	0.00
No. of employees: Grading/Excavation	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.40	6.75	0.66	0.31	0.13	0.02	2,329.85	0.05	0.03	2,339.21
Tons per const. Period - Grading/Excavation	0.05	0.89	0.09	0.04	0.02	0.00	307.54	0.01	0.00	308.78
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.05	0.89	0.09	0.04	0.02	0.00	307.54	0.01	0.00	308.78

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust					0.00
Grading/Excavation - Exhaust	3		40.00		120.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.03	0.11	0.86	0.03	0.01	0.00	422.39	0.00	0.01	426.69
Tons per const. Period - Grading/Excavation	0.00	0.01	0.11	0.00	0.00	0.00	55.76	0.00	0.00	56.32
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.11	0.00	0.00	0.00	55.76	0.00	0.00	56.32

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			400.00	52.80	83.20	10.98
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cement and Mortar Mixers	0.29	1.54	1.84	0.07	0.07	0.00	252.58	0.03	0.00	253.87
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cranes	1.82	9.26	20.47	0.85	0.78	0.03	2,733.67	0.88	0.02	2,763.14
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tier	Excavators	0.78	12.59	6.87	0.33	0.31	0.02	1,934.40	0.63	0.02	1,955.25
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Generator Sets	0.82	9.19	7.32	0.37	0.37	0.02	1,557.59	0.07	0.01	1,562.93
1.00			Model Default Tier	Graders	0.70	5.53	6.52	0.36	0.33	0.01	757.00	0.24	0.01	765.14
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00			Model Default Tier	Off-Highway Trucks	3.29	20.89	24.96	0.91	0.83	0.08	7,953.90	2.57	0.07	8,039.53
1.00			Model Default Tier	Other Construction Equipment	0.47	5.03	4.77	0.25	0.23	0.01	747.91	0.24	0.01	755.99
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Other Material Handling Equipment	0.33	4.68	2.79	0.15	0.14	0.01	695.43	0.22	0.01	702.93
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Paving Equipment	0.22	3.16	2.16	0.11	0.10	0.01	489.35	0.16	0.00	494.63
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Pumps	0.44	4.66	3.71	0.19	0.19	0.01	778.79	0.04	0.01	781.53
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Rubber Tired Dozers	1.07	8.76	10.81	0.49	0.45	0.01	1,077.83	0.35	0.01	1,089.41
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Scrapers	1.01	7.86	11.03	0.43	0.40	0.02	1,812.83	0.59	0.02	1,832.37
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Surfacing Equipment	0.22	1.95	2.62	0.10	0.09	0.01	790.45	0.26	0.01	798.98
1.00			Model Default Tier	Sweepers/Scrubbers	0.24	2.40	2.25	0.15	0.14	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.42	5.65	4.23	0.23	0.21	0.01	760.86	0.25	0.01	769.05
1.00			Model Default Tier	Trenchers	0.47	3.37	4.39	0.31	0.29	0.00	424.41	0.14	0.00	428.97
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	12.60	106.51	116.74	5.30	4.93	0.24	23,074.73	6.77	0.20	23,304.77
Grading/Excavation	tons per phase	1.66	14.06	15.41	0.70	0.65	0.03	3,045.86	0.89	0.03	3,076.23

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Drainage/Utilities/Sub-Grade	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		1.66	14.06	15.41	0.70	0.65	0.03	3,045.86	0.89	0.03	3,076.23

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	13.18	114.06	123.39	405.82	5.82	400.00	88.35	5.15	83.20	0.29	28,361.32	6.82	0.33	28,630.81
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.18	114.06	123.39	405.82	5.82	400.00	88.35	5.15	83.20	0.29	28,361.32	6.82	0.33	28,630.81
Total (tons/construction project)	1.74	15.06	16.29	53.57	0.77	52.80	11.66	0.68	10.98	0.04	3,743.69	0.90	0.04	3,779.27

Notes:

Project Start Year ->	2022
Project Length (months) ->	12
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	88	77	360	360	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022 Sac Weir				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	1.74	15.06	16.29	53.57	0.77	52.80	11.66	0.68	10.98	0.04	3,743.69	0.90	0.04	3,428.53
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.74	15.06	16.29	53.57	0.77	52.80	11.66	0.68	10.98	0.04	3743.69	0.90	0.04	3,428.53
Total (tons/construction project)	1.74	15.06	16.29	53.57	0.77	52.80	11.66	0.68	10.98	0.04	3743.69	0.90	0.04	3,428.53

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022 Sac Weir Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	13.13	113.95	119.97	405.80	5.80	400.00	88.33	5.13	83.20	0.29	28,272.61	6.82	0.33	28,540.28
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	13.13	113.95	119.97	405.80	5.80	400.00	88.33	5.13	83.20	0.29	28,272.61	6.82	0.33	28,540.28
Total (tons/construction project)	1.73	15.04	15.84	53.57	0.77	52.80	11.66	0.68	10.98	0.04	3,731.98	0.90	0.04	3,767.32

Notes:

Project Start Year ->	2022
Project Length (months) ->	12
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	88	77	360	360	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022 Sac Weir Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	1.73	15.04	15.84	53.57	0.77	52.80	11.66	0.68	10.98	0.04	3,731.98	0.90	0.04	3,417.69
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.73	15.04	15.84	53.57	0.77	52.80	11.66	0.68	10.98	0.04	3731.98	0.90	0.04	3,417.69
Total (tons/construction project)	1.73	15.04	15.84	53.57	0.77	52.80	11.66	0.68	10.98	0.04	3731.98	0.90	0.04	3,417.69

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> 2022 Sac Weir

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	7.77	150.16	21.76	401.35	1.35	400.00	84.18	0.98	83.20	0.29	28,272.61	6.82	0.33	28,540.28
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	7.77	150.16	21.76	401.35	1.35	400.00	84.18	0.98	83.20	0.29	28,272.61	6.82	0.33	28,540.28
Total (tons/construction project)	1.03	19.82	2.87	52.98	0.18	52.80	11.11	0.13	10.98	0.04	3,731.98	0.90	0.04	3,767.32

Notes:

Project Start Year ->	2022
Project Length (months) ->	12
Total Project Area (acres) ->	482
Maximum Area Disturbed/Day (acres) ->	40
Water Truck Used? ->	Yes

Phase	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	88	77	360	360	3,000	120
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> 2022 Sac Weir

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	1.03	19.82	2.87	52.98	0.18	52.80	11.11	0.13	10.98	0.04	3,731.98	0.90	0.04	3,417.69
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.03	19.82	2.87	52.98	0.18	52.80	11.11	0.13	10.98	0.04	3731.98	0.90	0.04	3,417.69
Total (tons/construction project)	1.03	19.82	2.87	52.98	0.18	52.80	11.11	0.13	10.98	0.04	3731.98	0.90	0.04	3,417.69

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Barge Emissions Calculations
ARCF 2016
Sacramento Weir - 2023

Basic Assumptions	
CY per Barge[1]	909
CY Imported	75,000
Miles/ hr per barge	5
Extra Empty Trips	2
Total Hrs per Day	10
lbs/ tons	2000
lbs/MT	2204.62

	San Rafael to Rio Vista (in SFNA)	San Rafael to Rio Vista (in BAAQMD)	Rio Vista to Sac Weir (in SFNA)
No. of Barge in Tow	4	4	1
Miles (one-way)	10.4	45	47
Total Tow-Hours	**47**	**204**	**794**

	PM10	PM2.5	NOx	ROG	CO	SO2	CO2	CH4	N2O	CO2e (MT)
Two-Engine Push Boat Emissions (lb/hr)	1.61	1.44	35.71	2.09	8.97	0.01	1417.70	0.06	0.01	1422.56
Tug Boat Emissions (lb/hr)	0.37	0.33	6.47	0.54	1.90	0.00	456.06	0.02	0.00	457.63
Total Emissions for Push Boat - In SFNA (Tons)	**0.04**	**0.03**	**0.84**	**0.05**	**0.21**	**0.00**	**33.36**	**0.00**	**0.00**	**30.37**
Total Emission for Push Boat- In BAAQMD (Tons)[2]	**0.16**	**0.15**	**3.64**	**0.21**	**0.91**	**0.00**	**144.34**	**0.01**	**0.00**	**131.39**
Total Emissions for Tug Boat - In SFNA (Tons)	**0.15**	**0.13**	**2.57**	**0.22**	**0.76**	**0.00**	**181.12**	**0.01**	**0.00**	**164.88**
Sum of Emissions in SFNA (Tons)	**0.19**	**0.17**	**3.41**	**0.27**	**0.97**	**0.00**	**214.48**	**0.01**	**0.00**	**195.2**

Notes: [1] https://ihsmarkit.com/country-industry-forecasting.html?ID=106593483 , one barge has the capacity of 1500 tons and assuming 1.65 tons/cy of quarry rock

[2] BAAQMD NOx Threshold is 54 lb/day (Not relevent to General Conformity)

Seepage and Stability
Reach D
Magpie Creek
Sacramento River and NAS

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Reach D Berm	
Construction Start Year	2019	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	2.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.09	miles
Total Project Area	3.50	acres
Maximum Area Disturbed/Day	0.25	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing			
	Grading/Excavation	13.00	542.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	2010 and Newer On-road Vehicles Fleet	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	Tier 4 Equipment	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml).
Will all off-road equipment be tier 4?	All Tier 4 Equipment	Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	0.20		1/1/2019
Grading/Excavation	2.00	0.80		1/1/2019
Drainage/Utilities/Sub-Grade	0.00	0.70		3/3/2019
Paving	0.00	0.30		3/3/2019
Totals (Months)	2			

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation	40.00		42	42	1680.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

2010+ Model Year Mitigation Option Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.07	0.36	1.48	0.10	0.04	0.02	1,576.79	0.00	0.05	1,592.32
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.25	1.34	5.47	0.38	0.15	0.06	5,840.06	0.01	0.19	5,897.60
Tons per const. Period - Grading/Excavation	0.01	0.03	0.12	0.01	0.00	0.00	128.48	0.00	0.00	129.75
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.03	0.12	0.01	0.00	0.00	128.48	0.00	0.00	129.75

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

2010+ Model Year Mitigation Option Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.07	0.36	1.48	0.10	0.04	0.02	1,576.79	0.00	0.05	1,592.32
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	10			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing			0	0.00
No. of employees: Grading/Excavation	15		30	300.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	1.19	0.13	0.05	0.02	0.00	381.71	0.01	0.01	383.53
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	1.08	2.86	0.23	0.00	0.00	0.00	85.97	0.01	0.01	89.17
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.09	0.98	0.10	0.03	0.01	0.00	258.14	0.01	0.00	259.56
Tons per const. Period - Grading/Excavation	0.00	0.02	0.00	0.00	0.00	0.00	5.68	0.00	0.00	5.71
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.02	0.00	0.00	0.00	0.00	5.68	0.00	0.00	5.71

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust					0.00
Grading/Excavation - Exhaust			3.00		0.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

2010+ Model Year Mitigation Option Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.07	0.36	1.48	0.10	0.04	0.02	1,576.79	0.00	0.05	1,592.32
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			2.50	0.06	0.52	0.01
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
			Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
			Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Excavators	0.16	4.04	0.33	0.02	0.02	0.01	527.30	0.17	0.00	532.86
			Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Plate Compactors	0.02	0.36	0.32	0.02	0.02	0.00	34.48	0.00	0.00	34.65
			Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Rubber Tired Dozers	0.27	4.68	0.54	0.03	0.02	0.01	882.19	0.28	0.01	891.46
			Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	0.45	9.08	1.19	0.06	0.06	0.01	1,443.97	0.45	0.01	1,458.97
Grading/Excavation	tons per phase	0.01	0.20	0.03	0.00	0.00	0.00	31.77	0.01	0.00	32.10

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
			Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
			Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		0.01	0.20	0.03	0.00	0.00	0.00	31.77	0.01	0.00	32.10

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		206		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		226		8
Crawler Tractors		208		8
Crushing/Proc. Equipment		85		8
Excavators		163		8
Forklifts		89		8
Generator Sets		84		8
Graders		175		8
Off-Highway Tractors		123		8
Off-Highway Trucks		400		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		167		8
Pavers		126		8
Paving Equipment		131		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		81		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		255		8
Rubber Tired Loaders		200		8
Scrapers		362		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		254		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		98		8
Trenchers		81		8
Welders		46		8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Reach D Berm

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.79	11.40	6.76	2.97	0.47	2.50	0.74	0.22	0.52	0.07	7,542.17	0.47	0.21	7,616.13
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	0.79	11.40	6.76	2.97	0.47	2.50	0.74	0.22	0.52	0.07	7,542.17	0.47	0.21	7,616.13
Total (tons/construction project)	0.02	0.25	0.15	0.07	0.01	0.06	0.02	0.00	0.01	0.00	165.93	0.01	0.00	167.55

Notes:

Project Start Year ->	2019
Project Length (months) ->	2
Total Project Area (acres) ->	4
Maximum Area Disturbed/Day (acres) ->	0
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	542	0	1,680	0	300	0
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Reach D Berm

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.02	0.25	0.15	0.07	0.01	0.06	0.02	0.00	0.01	0.00	165.93	0.01	0.00	152.00
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.02	0.25	0.15	0.07	0.01	0.06	0.02	0.00	0.01	0.00	165.93	0.01	0.00	152.00
Total (tons/construction project)	0.02	0.25	0.15	0.07	0.01	0.06	0.02	0.00	0.01	0.00	165.93	0.01	0.00	152.00

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**

Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Beach Stone Lake Mitigation Site	
Construction Start Year	2019	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	2.00	months
Working Days per Month	20.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	1	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.33	miles
Total Project Area	30.00	acres
Maximum Area Disturbed/Day	8.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	0.00		
	Grading/Excavation	0.00		
	Drainage/Utilities/Sub-Grade	0.00		
	Paving	0.00		
Asphalt	Grubbing/Land Clearing	0.00		
	Grading/Excavation	0.00		
	Drainage/Utilities/Sub-Grade	0.00		
	Paving	0.00		

Mitigation Options

On-road Fleet Emissions Mitigation		Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation		Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	0.20		1/1/2019
Grading/Excavation	4.00	0.80		1/1/2019
Drainage/Utilities/Sub-Grade	0.00	0.70		5/3/2019
Paving	0.00	0.30		5/3/2019
Totals (Months)	Program	4		

Please note: You have entered a different number of months than the project length shown in cell D16.
Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	0.00			0	0.00
Miles/round trip: Grading/Excavation	0.00			0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade	0.00			0	0.00
Miles/round trip: Paving	0.00			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.07	0.36	1.48	0.10	0.04	0.02	1,576.79	0.00	0.05	1,592.32
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.07	0.36	1.48	0.10	0.04	0.02	1,576.79	0.00	0.05	1,592.32
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip				
One-way trips/day				
No. of employees: Grubbing/Land Clearing			0	0.00
No. of employees: Grading/Excavation	9		0	0.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	1.19	0.13	0.05	0.02	0.00	381.71	0.01	0.01	383.53
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	1.08	2.86	0.23	0.00	0.00	0.00	85.97	0.01	0.01	89.17
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust					0.00
Grading/Excavation - Exhaust	1		10.00		10.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.07	0.36	1.48	0.10	0.04	0.02	1,576.79	0.00	0.05	1,592.32
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.01	0.03	0.00	0.00	0.00	34.76	0.00	0.00	35.10
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.00	1.40
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	1.39	0.00	0.00	1.40

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation	8.00		80.00	3.20	16.64	0.67
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grubbing/Land Clearing	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Crawler Tractors	0.60	2.53	7.84	0.30	0.27	0.01	762.62	0.24	0.01	770.66
			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	0.60	2.53	7.84	0.30	0.27	0.01	762.62	0.24	0.01	770.66
Grading/Excavation	tons per phase	0.02	0.10	0.31	0.01	0.01	0.00	30.50	0.01	0.00	30.83

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Drainage/Utilities/Sub-Grade	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		0.02	0.10	0.31	0.01	0.01	0.00	30.50	0.01	0.00	30.83

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		206		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		226		8
Crawler Tractors		208		8
Crushing/Proc. Equipment		85		8
Excavators		163		8
Forklifts		89		8
Generator Sets		84		8
Graders		175		8
Off-Highway Tractors		123		8
Off-Highway Trucks		400		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		167		8
Pavers		126		8
Paving Equipment		131		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		81		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		255		8
Rubber Tired Loaders		200		8
Scrapers		362		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		254		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		98		8
Trenchers		81		8
Welders		46		8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Beach Stone Lake Mitigation Site

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.60	2.54	7.88	80.30	0.30	80.00	16.91	0.27	16.64	0.01	797.38	0.24	0.01	805.77
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	0.60	2.54	7.88	80.30	0.30	80.00	16.91	0.27	16.64	0.01	797.38	0.24	0.01	805.77
Total (tons/construction project)	0.02	0.10	0.32	3.21	0.01	3.20	0.68	0.01	0.67	0.00	31.90	0.01	0.00	32.23

Notes:

Project Start Year ->	2019
Project Length (months) ->	2
Total Project Area (acres) ->	30
Maximum Area Disturbed/Day (acres) ->	8
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	0	0	0	0	0	10
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Beach Stone Lake Mitigation Site

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.02	0.10	0.32	3.21	0.01	3.20	0.68	0.01	0.67	0.00	31.90	0.01	0.00	29.24
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.02	0.10	0.32	3.21	0.01	3.20	0.68	0.01	0.67	0.00	31.90	0.01	0.00	29.24
Total (tons/construction project)	0.02	0.10	0.32	3.21	0.01	3.20	0.68	0.01	0.67	0.00	31.90	0.01	0.00	29.24

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**

Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Magpie Creek	
Construction Start Year	2022	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	3.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.59	miles
Total Project Area	4.00	acres
Maximum Area Disturbed/Day	1.00	acre
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	0.00
	Grading/Excavation	15.00	2705.00	150.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing	15.00	0.00	0.00
	Grading/Excavation	15.00	450.00	0.00
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	0.30		1/1/2022
Grading/Excavation	3.00	1.35	4/15/2022	1/1/2022
Drainage/Utilities/Sub-Grade	0.00	0.90		4/3/2022
Paving	0.00	0.45		4/3/2022
Totals (Months)	3			

Program

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be used.

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	0.00			0	0.00
Miles/round trip: Grading/Excavation	97.00			191	18527.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	4.00	17.53	132.03	4.59	2.02	0.62	65,213.72	0.19	2.21	65,877.33
Tons per const. Period - Grading/Excavation	0.13	0.58	4.36	0.15	0.07	0.02	2,152.05	0.01	0.07	2,173.95
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.13	0.58	4.36	0.15	0.07	0.02	2,152.05	0.01	0.07	2,173.95

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	0.00			0	0.00
Miles/round trip: Grading/Excavation	100.00			30	3000.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.65	2.84	21.38	0.74	0.33	0.10	10,559.79	0.03	0.36	10,667.24
Tons per const. Period - Grading/Excavation	0.02	0.09	0.71	0.02	0.01	0.00	348.47	0.00	0.01	352.02
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.02	0.09	0.71	0.02	0.01	0.00	348.47	0.00	0.01	352.02

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	0		0	0.00
No. of employees: Grading/Excavation	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.40	6.75	0.66	0.31	0.13	0.02	2,329.85	0.05	0.03	2,339.21
Tons per const. Period - Grading/Excavation	0.01	0.22	0.02	0.01	0.00	0.00	76.88	0.00	0.00	77.19
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.22	0.02	0.01	0.00	0.00	76.88	0.00	0.00	77.19

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	0		0.00		0.00
Grading/Excavation - Exhaust	1		40.00		40.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.01	0.04	0.29	0.01	0.00	0.00	140.80	0.00	0.00	142.23
Tons per const. Period - Grading/Excavation	0.00	0.00	0.01	0.00	0.00	0.00	4.65	0.00	0.00	4.69
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.01	0.00	0.00	0.00	4.65	0.00	0.00	4.69

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			10.00	0.33	2.08	0.07
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Cement and Mortar Mixers	0.06	0.31	0.37	0.01	0.01	0.00	50.52	0.01	0.00	50.77
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Cranes	0.36	1.85	4.09	0.17	0.16	0.01	546.73	0.18	0.00	552.63
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Excavators	0.42	6.72	3.67	0.18	0.16	0.01	1,031.68	0.33	0.01	1,042.80
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.33	3.68	2.93	0.15	0.15	0.01	623.04	0.03	0.00	625.17
1.00			Model Default Tier	Graders	0.56	4.42	5.22	0.29	0.27	0.01	605.60	0.20	0.01	612.11
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Off-Highway Trucks	1.05	6.68	7.99	0.29	0.27	0.03	2,545.25	0.82	0.02	2,572.65
2.00			Model Default Tier	Other Construction Equipment	0.75	8.04	7.63	0.40	0.37	0.01	1,196.66	0.39	0.01	1,209.59
2.00			Model Default Tier	Other General Industrial Equipment	0.36	3.87	3.38	0.21	0.19	0.01	496.04	0.16	0.00	501.39
10.00			Model Default Tier	Other Material Handling Equipment	2.66	37.42	22.31	1.21	1.11	0.06	5,563.46	1.80	0.05	5,623.44
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Rollers	0.34	3.77	3.49	0.20	0.19	0.01	514.56	0.17	0.00	520.10
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Rubber Tired Dozers	1.71	14.01	17.30	0.79	0.73	0.02	1,724.53	0.56	0.02	1,743.06
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Scrapers	0.81	6.29	8.82	0.34	0.32	0.02	1,450.26	0.47	0.01	1,465.90
3.00			Model Default Tier	Signal Boards	0.17	0.90	1.08	0.04	0.04	0.00	147.94	0.02	0.00	148.69
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Surfacing Equipment	0.18	1.56	2.09	0.08	0.07	0.01	632.36	0.20	0.01	639.18
1.00			Model Default Tier	Sweepers/Scrubbers	0.19	1.92	1.80	0.12	0.11	0.00	246.18	0.08	0.00	248.83
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.33	4.52	3.39	0.18	0.17	0.01	608.69	0.20	0.01	615.24
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Welders	0.55	3.39	2.93	0.13	0.13	0.01	414.96	0.05	0.00	417.23

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	10.83	109.35	98.48	4.79	4.44	0.19	18,398.45	5.65	0.16	18,588.79
Grading/Excavation	tons per phase	0.36	3.61	3.25	0.16	0.15	0.01	607.15	0.19	0.01	613.43

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Drainage/Utilities/Sub-Grade	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		0.36	3.61	3.25	0.16	0.15	0.01	607.15	0.19	0.01	613.43

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		206		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		226		8
Crawler Tractors		208		8
Crushing/Proc. Equipment		85		8
Excavators		163		8
Forklifts		89		8
Generator Sets		84		8
Graders		175		8
Off-Highway Tractors		123		8
Off-Highway Trucks		400		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		167		8
Pavers		126		8
Paving Equipment		131		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		81		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		255		8
Rubber Tired Loaders		200		8
Scrapers		362		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		254		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		98		8
Trenchers		81		8
Welders		46		8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Magpie Creek

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	15.88	136.50	252.83	20.44	10.44	10.00	9.00	6.92	2.08	0.94	96,642.60	5.92	2.77	97,614.80
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	15.88	136.50	252.83	20.44	10.44	10.00	9.00	6.92	2.08	0.94	96,642.60	5.92	2.77	97,614.80
Total (tons/construction project)	0.52	4.50	8.34	0.67	0.34	0.33	0.30	0.23	0.07	0.03	3,189.21	0.20	0.09	3,221.29

Notes:

Project Start Year ->	2022
Project Length (months) ->	3
Total Project Area (acres) ->	4
Maximum Area Disturbed/Day (acres) ->	1
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	2,855	450	18,527	3,000	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Magpie Creek

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.52	4.50	8.34	0.67	0.34	0.33	0.30	0.23	0.07	0.03	3,189.21	0.20	0.09	2,922.33
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.52	4.50	8.34	0.67	0.34	0.33	0.30	0.23	0.07	0.03	3189.21	0.20	0.09	2,922.33
Total (tons/construction project)	0.52	4.50	8.34	0.67	0.34	0.33	0.30	0.23	0.07	0.03	3189.21	0.20	0.09	2,922.33

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Magpie Creek

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	14.41	133.77	165.24	19.98	9.98	10.00	8.55	6.47	2.08	0.92	94,365.11	5.85	2.61	95,290.40
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	14.41	133.77	165.24	19.98	9.98	10.00	8.55	6.47	2.08	0.92	94,365.11	5.85	2.61	95,290.40
Total (tons/construction project)	0.48	4.41	5.45	0.66	0.33	0.33	0.28	0.21	0.07	0.03	3,114.05	0.19	0.09	3,144.58

Notes:

Project Start Year ->	2022
Project Length (months) ->	3
Total Project Area (acres) ->	4
Maximum Area Disturbed/Day (acres) ->	1
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	2,855	450	18,527	3,000	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Magpie Creek

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.48	4.41	5.45	0.66	0.33	0.33	0.28	0.21	0.07	0.03	3,114.05	0.19	0.09	2,852.75
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.48	4.41	5.45	0.66	0.33	0.33	0.28	0.21	0.07	0.03	3114.05	0.19	0.09	2,852.75
Total (tons/construction project)	0.48	4.41	5.45	0.66	0.33	0.33	0.28	0.21	0.07	0.03	3114.05	0.19	0.09	2,852.75

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Magpie Creek

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	9.43	150.30	83.82	15.87	5.87	10.00	4.75	2.67	2.08	0.92	94,365.11	5.85	2.61	95,290.40
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	9.43	150.30	83.82	15.87	5.87	10.00	4.75	2.67	2.08	0.92	94,365.11	5.85	2.61	95,290.40
Total (tons/construction project)	0.31	4.96	2.77	0.52	0.19	0.33	0.16	0.09	0.07	0.03	3,114.05	0.19	0.09	3,144.58

Notes:

Project Start Year ->	2022
Project Length (months) ->	3
Total Project Area (acres) ->	4
Maximum Area Disturbed/Day (acres) ->	1
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	2,855	450	18,527	3,000	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Magpie Creek

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.31	4.96	2.77	0.52	0.19	0.33	0.16	0.09	0.07	0.03	3,114.05	0.19	0.09	2,852.75
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.31	4.96	2.77	0.52	0.19	0.33	0.16	0.09	0.07	0.03	3114.05	0.19	0.09	2,852.75
Total (tons/construction project)	0.31	4.96	2.77	0.52	0.19	0.33	0.16	0.09	0.07	0.03	3114.05	0.19	0.09	2,852.75

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**

Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Sac River S/S Contract 1: 2020 Berms and Relief Wells	
Construction Start Year	2020	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	4.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.23	miles
Total Project Area	8.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing			
	Grading/Excavation	15.00	208.00	54.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	0.40		1/1/2020
Grading/Excavation	4.00	1.80	5/30/2020	1/1/2020
Drainage/Utilities/Sub-Grade	0.00	1.20		5/2/2020
Paving	0.00	0.60		5/2/2020
Totals (Months)	4			

Program

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be used.

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation	34.00			18	612.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.14	0.59	5.57	0.16	0.07	0.02	2,201.55	0.01	0.07	2,223.95
Tons per const. Period - Grading/Excavation	0.01	0.03	0.25	0.01	0.00	0.00	96.87	0.00	0.00	97.85
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.03	0.25	0.01	0.00	0.00	96.87	0.00	0.00	97.85

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	0		0	0.00
No. of employees: Grading/Excavation	30		60	1,200.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	1.08	0.11	0.05	0.02	0.00	371.46	0.01	0.00	373.08
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	1.00	2.55	0.20	0.00	0.00	0.00	84.03	0.01	0.01	86.84
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.19	3.18	0.33	0.12	0.05	0.01	993.84	0.02	0.01	998.48
Tons per const. Period - Grading/Excavation	0.01	0.14	0.01	0.01	0.00	0.00	43.73	0.00	0.00	43.93
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.14	0.01	0.01	0.00	0.00	43.73	0.00	0.00	43.93

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust					0.00
Grading/Excavation - Exhaust	1		40.00		40.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.01	0.04	0.36	0.01	0.00	0.00	143.89	0.00	0.00	145.36
Tons per const. Period - Grading/Excavation	0.00	0.00	0.02	0.00	0.00	0.00	6.33	0.00	0.00	6.40
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.02	0.00	0.00	0.00	6.33	0.00	0.00	6.40

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			50.00	2.20	10.40	0.46
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Bore/Drill Rigs	1.29	9.70	16.42	0.47	0.44	0.04	4,240.28	1.37	0.04	4,286.14
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Excavators	0.63	8.43	6.22	0.30	0.28	0.01	1,289.86	0.42	0.01	1,303.77
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.50	4.63	4.35	0.25	0.25	0.01	778.79	0.04	0.01	781.64
4.00			Model Default Tier	Graders	3.59	22.91	34.99	1.95	1.80	0.03	3,024.69	0.98	0.03	3,057.20
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Rollers	1.58	14.38	15.80	1.01	0.93	0.02	1,929.32	0.62	0.02	1,950.11
2.00			Model Default Tier	Rough Terrain Forklifts	0.33	5.74	4.32	0.18	0.17	0.01	834.20	0.27	0.01	843.19
4.00			Model Default Tier	Rubber Tired Dozers	4.81	39.68	50.74	2.33	2.14	0.04	4,315.35	1.40	0.04	4,361.71
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.34	2.48	2.91	0.23	0.22	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.53	5.76	5.32	0.34	0.31	0.01	759.67	0.25	0.01	767.85
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	14.03	115.97	143.77	7.17	6.62	0.19	17,849.74	5.48	0.16	18,034.37
Grading/Excavation	tons per phase	0.62	5.10	6.33	0.32	0.29	0.01	785.39	0.24	0.01	793.51

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		0.62	5.10	6.33	0.32	0.29	0.01	785.39	0.24	0.01	793.51

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 1: 2020 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	14.37	119.78	150.03	57.46	7.46	50.00	17.15	6.75	10.40	0.22	21,189.03	5.52	0.25	21,402.16
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	14.37	119.78	150.03	57.46	7.46	50.00	17.15	6.75	10.40	0.22	21,189.03	5.52	0.25	21,402.16
Total (tons/construction project)	0.63	5.27	6.60	2.53	0.33	2.20	0.75	0.30	0.46	0.01	932.32	0.24	0.01	941.70

Notes:

Project Start Year ->	2020
Project Length (months) ->	4
Total Project Area (acres) ->	8
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	262	0	612	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 1: 2020 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.63	5.27	6.60	2.53	0.33	2.20	0.75	0.30	0.46	0.01	932.32	0.24	0.01	854.30
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.63	5.27	6.60	2.53	0.33	2.20	0.75	0.30	0.46	0.01	932.32	0.24	0.01	854.30
Total (tons/construction project)	0.63	5.27	6.60	2.53	0.33	2.20	0.75	0.30	0.46	0.01	932.32	0.24	0.01	854.30

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 1: 2020 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	14.32	119.68	146.20	57.44	7.44	50.00	17.13	6.73	10.40	0.22	21,102.20	5.51	0.25	21,313.73
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	14.32	119.68	146.20	57.44	7.44	50.00	17.13	6.73	10.40	0.22	21,102.20	5.51	0.25	21,313.73
Total (tons/construction project)	0.63	5.27	6.43	2.53	0.33	2.20	0.75	0.30	0.46	0.01	928.50	0.24	0.01	937.80

Notes:

Project Start Year ->	2020
Project Length (months) ->	4
Total Project Area (acres) ->	8
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	262	0	612	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 1: 2020 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.63	5.27	6.43	2.53	0.33	2.20	0.75	0.30	0.46	0.01	928.50	0.24	0.01	850.77
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.63	5.27	6.43	2.53	0.33	2.20	0.75	0.30	0.46	0.01	928.50	0.24	0.01	850.77
Total (tons/construction project)	0.63	5.27	6.43	2.53	0.33	2.20	0.75	0.30	0.46	0.01	928.50	0.24	0.01	850.77

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 1: 2020 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	5.98	116.15	18.83	51.02	1.02	50.00	11.20	0.80	10.40	0.22	21,102.20	5.51	0.25	21,313.73
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	5.98	116.15	18.83	51.02	1.02	50.00	11.20	0.80	10.40	0.22	21,102.20	5.51	0.25	21,313.73
Total (tons/construction project)	0.26	5.11	0.83	2.24	0.04	2.20	0.49	0.04	0.46	0.01	928.50	0.24	0.01	937.80

Notes:

Project Start Year ->	2020
Project Length (months) ->	4
Total Project Area (acres) ->	8
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	262	0	612	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 1: 2020 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.26	5.11	0.83	2.24	0.04	2.20	0.49	0.04	0.46	0.01	928.50	0.24	0.01	850.77
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.26	5.11	0.83	2.24	0.04	2.20	0.49	0.04	0.46	0.01	928.50	0.24	0.01	850.77
Total (tons/construction project)	0.26	5.11	0.83	2.24	0.04	2.20	0.49	0.04	0.46	0.01	928.50	0.24	0.01	850.77

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Sac River S/S Contract 1: 2020 Vegetation and Cutoff Wall	
Construction Start Year	2020	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	7.80	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	2.65	miles
Total Project Area	64.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	40.00
	Grading/Excavation	15.00	1958.00	54.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.80	0.78	4/15/2020	1/1/2020
Grading/Excavation	7.00	3.51	5/10/2020	1/26/2020
Drainage/Utilities/Sub-Grade	0.00	2.34		8/26/2020
Paving	0.00	1.17		8/26/2020
Totals (Months)	8		Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be used.	

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	26.00			3	78.00
Miles/round trip: Grading/Excavation	41.00			135	5535.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Grading/Excavation (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.02	0.07	0.71	0.02	0.01	0.00	280.59	0.00	0.01	283.44
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	2.47	0.00	0.00	2.49
Pounds per day - Grading/Excavation	1.29	5.32	50.38	1.43	0.65	0.19	19,911.10	0.06	0.67	20,113.64
Tons per const. Period - Grading/Excavation	0.10	0.41	3.88	0.11	0.05	0.01	1,533.15	0.00	0.05	1,548.75
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.10	0.41	3.89	0.11	0.05	0.01	1,535.62	0.00	0.05	1,551.24

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Grading/Excavation (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	14		28	560.00
No. of employees: Grading/Excavation	100		200	4,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.02	1.08	0.11	0.05	0.02	0.00	371.46	0.01	0.00	373.08
Grading/Excavation (grams/mile)	0.02	1.08	0.11	0.05	0.02	0.00	371.46	0.01	0.00	373.08
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	1.00	2.55	0.20	0.00	0.00	0.00	84.03	0.01	0.01	86.84
Grading/Excavation (grams/trip)	1.00	2.55	0.20	0.00	0.00	0.00	84.03	0.01	0.01	86.84
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.09	1.49	0.15	0.06	0.02	0.00	463.79	0.01	0.01	465.96
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	4.08	0.00	0.00	4.10
Pounds per day - Grading/Excavation	0.62	10.61	1.09	0.41	0.17	0.03	3,312.80	0.08	0.05	3,328.28
Tons per const. Period - Grading/Excavation	0.05	0.82	0.08	0.03	0.01	0.00	255.09	0.01	0.00	256.28
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.05	0.83	0.09	0.03	0.01	0.00	259.17	0.01	0.00	260.38

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	2		40.00		80.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Grading/Excavation (grams/mile)	0.11	0.44	4.13	0.12	0.05	0.02	1,631.71	0.00	0.06	1,648.31
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.36	0.01	0.00	0.00	143.89	0.00	0.00	145.36
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.00	0.00	1.28
Pounds per day - Grading/Excavation	0.02	0.08	0.73	0.02	0.01	0.00	287.78	0.00	0.01	290.71
Tons per const. Period - Grading/Excavation	0.00	0.01	0.06	0.00	0.00	0.00	22.16	0.00	0.00	22.38
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.06	0.00	0.00	0.00	23.43	0.00	0.00	23.66

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			50.00	0.44	10.40	0.09
Fugitive Dust - Grading/Excavation			50.00	3.85	10.40	0.80
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Cranes	1.11	5.17	13.19	0.54	0.50	0.01	1,366.74	0.44	0.01	1,381.47
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Excavators	0.63	8.43	6.22	0.30	0.28	0.01	1,289.86	0.42	0.01	1,303.77
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Signal Boards	0.07	0.38	0.45	0.02	0.02	0.00	61.64	0.01	0.00	61.96
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.34	2.48	2.91	0.23	0.22	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.53	5.76	5.32	0.34	0.31	0.01	759.67	0.25	0.01	767.85
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grubbing/Land Clearing	pounds per day	2.68	22.22	28.09	1.43	1.32	0.04	3,785.64	1.21	0.03	3,826.08
Grubbing/Land Clearing	tons per phase	0.02	0.20	0.25	0.01	0.01	0.00	33.31	0.01	0.00	33.67

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Bore/Drill Rigs	1.29	9.70	16.42	0.47	0.44	0.04	4,240.28	1.37	0.04	4,286.14
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cranes	2.22	10.35	26.37	1.09	1.00	0.03	2,733.48	0.88	0.02	2,762.94
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00			Model Default Tier	Excavators	3.16	42.14	31.11	1.51	1.39	0.07	6,449.32	2.09	0.06	6,518.84
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.50	4.63	4.35	0.25	0.25	0.01	778.79	0.04	0.01	781.64
4.00			Model Default Tier	Graders	3.59	22.91	34.99	1.95	1.80	0.03	3,024.69	0.98	0.03	3,057.20
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.00			Model Default Tier	Other Material Handling Equipment	5.94	74.72	55.76	2.78	2.56	0.12	11,126.92	3.60	0.10	11,246.88
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Rollers	1.58	14.38	15.80	1.01	0.93	0.02	1,929.32	0.62	0.02	1,950.11
10.00			Model Default Tier	Rough Terrain Forklifts	1.67	28.71	21.62	0.90	0.83	0.04	4,171.01	1.35	0.04	4,215.97
10.00			Model Default Tier	Rubber Tired Dozers	12.03	99.20	126.85	5.83	5.36	0.11	10,788.37	3.49	0.10	10,904.27
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.34	2.48	2.91	0.23	0.22	0.00	307.72	0.10	0.00	311.03
6.00			Model Default Tier	Tractors/Loaders/Backhoes	1.59	17.27	15.95	1.01	0.93	0.02	2,279.02	0.74	0.02	2,303.56
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	34.33	328.75	354.84	17.13	15.79	0.50	48,198.77	15.30	0.43	48,710.31
Grading/Excavation	tons per phase	2.64	25.31	27.32	1.32	1.22	0.04	3,711.31	1.18	0.03	3,750.69

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		2.67	25.51	27.57	1.33	1.23	0.04	3,744.62	1.19	0.03	3,784.36

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 1: 2020 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.79	23.82	29.31	51.52	1.52	50.00	11.76	1.36	10.40	0.05	4,673.91	1.22	0.05	4,720.84
Grading/Excavation	36.25	344.76	407.03	68.99	18.99	50.00	27.03	16.63	10.40	0.72	71,710.46	15.44	1.16	72,442.94
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	36.25	344.76	407.03	68.99	18.99	50.00	27.03	16.63	10.40	0.72	71,710.46	15.44	1.16	72,442.94
Total (tons/construction project)	2.82	26.76	31.60	5.77	1.48	4.29	2.18	1.29	0.89	0.06	5,562.84	1.20	0.09	5,619.65

Notes:

Project Start Year ->	2020
Project Length (months) ->	8
Total Project Area (acres) ->	64
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

Phase	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	40	0	78	0	560	40
Grading/Excavation	2,012	0	5,535	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 1: 2020 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.02	0.21	0.26	0.45	0.01	0.44	0.10	0.01	0.09	0.00	41.13	0.01	0.00	37.69
Grading/Excavation	2.79	26.55	31.34	5.31	1.46	3.85	2.08	1.28	0.80	0.06	5,521.71	1.19	0.09	5,060.43
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	2.79	26.55	31.34	5.31	1.46	3.85	2.08	1.28	0.80	0.06	5521.71	1.19	0.09	5,060.43
Total (tons/construction project)	2.82	26.76	31.60	5.77	1.48	4.29	2.18	1.29	0.89	0.06	5562.84	1.20	0.09	5,098.11

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 1: 2020 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.78	23.80	28.62	51.52	1.52	50.00	11.75	1.35	10.40	0.05	4,658.20	1.22	0.05	4,704.84
Grading/Excavation	35.78	343.91	374.04	68.82	18.82	50.00	26.86	16.46	10.40	0.72	70,962.71	15.42	1.12	71,681.37
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	35.78	343.91	374.04	68.82	18.82	50.00	26.86	16.46	10.40	0.72	70,962.71	15.42	1.12	71,681.37
Total (tons/construction project)	2.78	26.69	29.05	5.75	1.46	4.29	2.17	1.28	0.89	0.06	5,505.12	1.20	0.09	5,560.87

Notes:

Project Start Year ->	2020
Project Length (months) ->	8
Total Project Area (acres) ->	64
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	40	0	78	0	560	40
Grading/Excavation	2,012	0	5,535	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 1: 2020 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.02	0.21	0.25	0.45	0.01	0.44	0.10	0.01	0.09	0.00	40.99	0.01	0.00	37.56
Grading/Excavation	2.76	26.48	28.80	5.30	1.45	3.85	2.07	1.27	0.80	0.06	5,464.13	1.19	0.09	5,007.23
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	2.76	26.48	28.80	5.30	1.45	3.85	2.07	1.27	0.80	0.06	5464.13	1.19	0.09	5,007.23
Total (tons/construction project)	2.78	26.69	29.05	5.75	1.46	4.29	2.17	1.28	0.89	0.06	5505.12	1.20	0.09	5,044.79

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 1: 2020 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.34	28.17	5.43	50.24	0.24	50.00	10.58	0.18	10.40	0.05	4,658.20	1.22	0.05	4,704.84
Grading/Excavation	16.74	343.24	54.81	53.39	3.39	50.00	12.64	2.24	10.40	0.72	70,962.71	15.42	1.12	71,681.37
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	16.74	343.24	54.81	53.39	3.39	50.00	12.64	2.24	10.40	0.72	70,962.71	15.42	1.12	71,681.37
Total (tons/construction project)	1.30	26.68	4.27	4.55	0.26	4.29	1.07	0.17	0.89	0.06	5,505.12	1.20	0.09	5,560.87

Notes:

Project Start Year ->	2020
Project Length (months) ->	8
Total Project Area (acres) ->	64
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	40	0	78	0	560	40
Grading/Excavation	2,012	0	5,535	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 1: 2020 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.25	0.05	0.44	0.00	0.44	0.09	0.00	0.09	0.00	40.99	0.01	0.00	37.56
Grading/Excavation	1.29	26.43	4.22	4.11	0.26	3.85	0.97	0.17	0.80	0.06	5,464.13	1.19	0.09	5,007.23
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.29	26.43	4.22	4.11	0.26	3.85	0.97	0.17	0.80	0.06	5464.13	1.19	0.09	5,007.23
Total (tons/construction project)	1.30	26.68	4.27	4.55	0.26	4.29	1.07	0.17	0.89	0.06	5505.12	1.20	0.09	5,044.79

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**

Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Sac River S/S Contract 2: 2021 Berms and Relief Wells	
Construction Start Year	2021	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	4.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.25	miles
Total Project Area	3.00	acres
Maximum Area Disturbed/Day	3.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing			
	Grading/Excavation	15.00	272.00	71.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	0.40	8/1/2020	1/1/2021
Grading/Excavation	4.00	1.80	5/30/2021	1/1/2021
Drainage/Utilities/Sub-Grade	0.00	1.20	9/22/2020	5/3/2021
Paving	0.00	0.60	10/30/2020	5/3/2021
Totals (Months)	Program	4		

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	0.00			0	0.00
Miles/round trip: Grading/Excavation	34.00			23	782.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.18	0.75	6.28	0.20	0.09	0.03	2,783.42	0.01	0.09	2,811.74
Tons per const. Period - Grading/Excavation	0.01	0.03	0.28	0.01	0.00	0.00	122.47	0.00	0.00	123.72
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.03	0.28	0.01	0.00	0.00	122.47	0.00	0.00	123.72

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	0		0	0.00
No. of employees: Grading/Excavation	30		60	1,200.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.17	2.92	0.29	0.12	0.05	0.01	963.31	0.02	0.01	967.47
Tons per const. Period - Grading/Excavation	0.01	0.13	0.01	0.01	0.00	0.00	42.39	0.00	0.00	42.57
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.13	0.01	0.01	0.00	0.00	42.39	0.00	0.00	42.57

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust					0.00
Grading/Excavation - Exhaust	1		40.00		40.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.01	0.04	0.32	0.01	0.00	0.00	142.37	0.00	0.00	143.82
Tons per const. Period - Grading/Excavation	0.00	0.00	0.01	0.00	0.00	0.00	6.26	0.00	0.00	6.33
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.01	0.00	0.00	0.00	6.26	0.00	0.00	6.33

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			30.00	1.32	6.24	0.27
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Excavators	0.59	8.44	5.55	0.27	0.25	0.01	1,290.05	0.42	0.01	1,303.96
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.45	4.61	3.96	0.21	0.21	0.01	778.79	0.04	0.01	781.53
4.00			Model Default Tier	Graders	3.20	22.52	30.62	1.71	1.57	0.03	3,027.78	0.98	0.03	3,060.33
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Rollers	1.44	14.28	14.61	0.89	0.82	0.02	1,929.49	0.62	0.02	1,950.28
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Rubber Tired Dozers	4.43	36.35	45.70	2.09	1.92	0.04	4,308.42	1.39	0.04	4,354.71
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.29	2.44	2.57	0.19	0.17	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.47	5.71	4.79	0.28	0.26	0.01	760.01	0.25	0.01	768.19
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grading/Excavation	pounds per day	11.29	96.60	110.50	5.74	5.31	0.13	12,772.12	3.84	0.11	12,901.77
	Grading/Excavation	tons per phase	0.50	4.25	4.86	0.25	0.23	0.01	561.97	0.17	0.00	567.68

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		0.50	4.25	4.86	0.25	0.23	0.01	561.97	0.17	0.00	567.68

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 2: 2021 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	11.65	100.30	117.40	36.08	6.08	30.00	11.70	5.46	6.24	0.17	16,661.23	3.87	0.22	16,824.81
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	11.65	100.30	117.40	36.08	6.08	30.00	11.70	5.46	6.24	0.17	16,661.23	3.87	0.22	16,824.81
Total (tons/construction project)	0.51	4.41	5.17	1.59	0.27	1.32	0.51	0.24	0.27	0.01	733.09	0.17	0.01	740.29

Notes:

Project Start Year ->	2021
Project Length (months) ->	4
Total Project Area (acres) ->	3
Maximum Area Disturbed/Day (acres) ->	3
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	343	0	782	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 2: 2021 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.51	4.41	5.17	1.59	0.27	1.32	0.51	0.24	0.27	0.01	733.09	0.17	0.01	671.59
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.51	4.41	5.17	1.59	0.27	1.32	0.51	0.24	0.27	0.01	733.09	0.17	0.01	671.59
Total (tons/construction project)	0.51	4.41	5.17	1.59	0.27	1.32	0.51	0.24	0.27	0.01	733.09	0.17	0.01	671.59

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 2: 2021 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	11.58	100.19	113.38	36.05	6.05	30.00	11.67	5.43	6.24	0.17	16,561.68	3.86	0.22	16,723.34
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	11.58	100.19	113.38	36.05	6.05	30.00	11.67	5.43	6.24	0.17	16,561.68	3.86	0.22	16,723.34
Total (tons/construction project)	0.51	4.41	4.99	1.59	0.27	1.32	0.51	0.24	0.27	0.01	728.71	0.17	0.01	735.83

Notes:

Project Start Year ->	2021
Project Length (months) ->	4
Total Project Area (acres) ->	3
Maximum Area Disturbed/Day (acres) ->	3
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	343	0	782	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 2: 2021 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.51	4.41	4.99	1.59	0.27	1.32	0.51	0.24	0.27	0.01	728.71	0.17	0.01	667.54
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.51	4.41	4.99	1.59	0.27	1.32	0.51	0.24	0.27	0.01	728.71	0.17	0.01	667.54
Total (tons/construction project)	0.51	4.41	4.99	1.59	0.27	1.32	0.51	0.24	0.27	0.01	728.71	0.17	0.01	667.54

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 2: 2021 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	4.37	85.89	16.03	30.89	0.89	30.00	6.90	0.66	6.24	0.17	16,561.68	3.86	0.22	16,723.34
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	4.37	85.89	16.03	30.89	0.89	30.00	6.90	0.66	6.24	0.17	16,561.68	3.86	0.22	16,723.34
Total (tons/construction project)	0.19	3.78	0.71	1.36	0.04	1.32	0.30	0.03	0.27	0.01	728.71	0.17	0.01	735.83

Notes:

Project Start Year ->	2021
Project Length (months) ->	4
Total Project Area (acres) ->	3
Maximum Area Disturbed/Day (acres) ->	3
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	343	0	782	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 2: 2021 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.19	3.78	0.71	1.36	0.04	1.32	0.30	0.03	0.27	0.01	728.71	0.17	0.01	667.54
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.19	3.78	0.71	1.36	0.04	1.32	0.30	0.03	0.27	0.01	728.71	0.17	0.01	667.54
Total (tons/construction project)	0.19	3.78	0.71	1.36	0.04	1.32	0.30	0.03	0.27	0.01	728.71	0.17	0.01	667.54

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Sac River S/S Contract 2: 2021 Vegetation and Cutoff Wall	
Construction Start Year	2021	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	7.20	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	2.20	miles
Total Project Area	69.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	35.00
	Grading/Excavation	15.00	1978.00	37.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.80	0.72	4/1/2021	1/1/2021
Grading/Excavation	6.40	3.24	4/15/2021	1/26/2021
Drainage/Utilities/Sub-Grade	0.00	2.16	9/22/2021	8/9/2021
Paving	0.00	1.08	10/30/2021	8/9/2021
Totals (Months)		7		

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	26.00			3	78.00
Miles/round trip: Grading/Excavation	41.00			135	5535.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.02	0.07	0.63	0.02	0.01	0.00	277.63	0.00	0.01	280.45
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	2.44	0.00	0.00	2.47
Pounds per day - Grading/Excavation	1.24	5.28	44.48	1.40	0.63	0.19	19,701.07	0.06	0.67	19,901.52
Tons per const. Period - Grading/Excavation	0.09	0.37	3.13	0.10	0.04	0.01	1,386.96	0.00	0.05	1,401.07
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.09	0.37	3.14	0.10	0.04	0.01	1,389.40	0.00	0.05	1,403.53

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	14		28	560.00
No. of employees: Grading/Excavation	100		200	4,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Grading/Excavation (grams/mile)	0.02	0.99	0.10	0.05	0.02	0.00	360.03	0.01	0.00	361.48
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Grading/Excavation (grams/trip)	0.93	2.28	0.18	0.00	0.00	0.00	81.88	0.01	0.01	84.35
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.08	1.36	0.14	0.06	0.02	0.00	449.55	0.01	0.01	451.49
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	3.96	0.00	0.00	3.97
Pounds per day - Grading/Excavation	0.58	9.74	0.97	0.41	0.17	0.03	3,211.04	0.07	0.04	3,224.91
Tons per const. Period - Grading/Excavation	0.04	0.69	0.07	0.03	0.01	0.00	226.06	0.01	0.00	227.03
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.04	0.70	0.07	0.03	0.01	0.00	230.01	0.01	0.00	231.01

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	2		40.00		80.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Grading/Excavation (grams/mile)	0.10	0.43	3.65	0.11	0.05	0.02	1,614.50	0.00	0.05	1,630.92
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.32	0.01	0.00	0.00	142.37	0.00	0.00	143.82
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	1.27
Pounds per day - Grading/Excavation	0.02	0.08	0.64	0.02	0.01	0.00	284.75	0.00	0.01	287.65
Tons per const. Period - Grading/Excavation	0.00	0.01	0.05	0.00	0.00	0.00	20.05	0.00	0.00	20.25
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.05	0.00	0.00	0.00	21.30	0.00	0.00	21.52

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			50.00	0.44	10.40	0.09
Fugitive Dust - Grading/Excavation			50.00	3.52	10.40	0.73
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Cranes	1.01	4.85	11.86	0.48	0.44	0.01	1,366.61	0.44	0.01	1,381.34
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Excavators	0.59	8.44	5.55	0.27	0.25	0.01	1,290.05	0.42	0.01	1,303.96
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Signal Boards	0.07	0.38	0.45	0.02	0.02	0.00	61.64	0.01	0.00	61.96
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.29	2.44	2.57	0.19	0.17	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.47	5.71	4.79	0.28	0.26	0.01	760.01	0.25	0.01	768.19
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		2.43	21.81	25.22	1.24	1.14	0.04	3,786.04	1.21	0.03	3,826.48
	Grubbing/Land Clearing	tons per phase		0.02	0.19	0.22	0.01	0.01	0.00	33.32	0.01	0.00	33.67

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Bore/Drill Rigs	1.20	9.67	14.09	0.43	0.39	0.04	4,250.79	1.38	0.04	4,296.74
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cranes	2.02	9.70	23.72	0.96	0.89	0.03	2,733.23	0.88	0.02	2,762.68
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00			Model Default Tier	Excavators	2.96	42.19	27.77	1.35	1.24	0.07	6,450.27	2.09	0.06	6,519.82
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.45	4.61	3.96	0.21	0.21	0.01	778.79	0.04	0.01	781.53
4.00			Model Default Tier	Graders	3.20	22.52	30.62	1.71	1.57	0.03	3,027.78	0.98	0.03	3,060.33
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.00			Model Default Tier	Other Material Handling Equipment	5.86	75.32	52.93	2.68	2.47	0.12	11,126.92	3.60	0.10	11,246.88
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Rollers	1.44	14.28	14.61	0.89	0.82	0.02	1,929.49	0.62	0.02	1,950.28
10.00			Model Default Tier	Rough Terrain Forklifts	1.54	28.68	20.15	0.78	0.72	0.04	4,172.12	1.35	0.04	4,217.08
10.00			Model Default Tier	Rubber Tired Dozers	11.07	90.87	114.26	5.22	4.80	0.11	10,771.06	3.48	0.10	10,886.78
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.29	2.44	2.57	0.19	0.17	0.00	307.72	0.10	0.00	311.03
6.00			Model Default Tier	Tractors/Loaders/Backhoes	1.42	17.13	14.37	0.85	0.78	0.02	2,280.02	0.74	0.02	2,304.56
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	31.87	319.65	321.74	15.37	14.17	0.50	48,198.03	15.29	0.43	48,709.44
Grading/Excavation	tons per phase	2.24	22.50	22.65	1.08	1.00	0.04	3,393.14	1.08	0.03	3,429.14

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		2.26	22.70	22.87	1.09	1.01	0.04	3,426.46	1.09	0.03	3,462.82

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 2: 2021 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.54	23.29	26.31	51.33	1.33	50.00	11.58	1.18	10.40	0.05	4,655.59	1.22	0.05	4,702.25
Grading/Excavation	33.70	334.75	367.84	67.20	17.20	50.00	25.38	14.98	10.40	0.72	71,394.89	15.42	1.15	72,123.52
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	36.24	358.03	394.15	118.53	18.53	100.00	36.96	16.16	20.80	0.77	76,050.48	16.65	1.21	76,825.77
Total (tons/construction project)	2.39	23.77	26.13	5.18	1.22	3.96	1.89	1.06	0.82	0.05	5,067.17	1.10	0.08	5,118.88

Notes:

Project Start Year ->	2021
Project Length (months) ->	7
Total Project Area (acres) ->	69
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	35	0	78	0	560	40
Grading/Excavation	2,015	0	5,535	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 2: 2021 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.02	0.20	0.23	0.45	0.01	0.44	0.10	0.01	0.09	0.00	40.97	0.01	0.00	37.54
Grading/Excavation	2.37	23.57	25.90	4.73	1.21	3.52	1.79	1.05	0.73	0.05	5,026.20	1.09	0.08	4,606.27
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	2.37	23.57	25.90	4.73	1.21	3.52	1.79	1.05	0.73	0.05	5026.20	1.09	0.08	4,606.27
Total (tons/construction project)	2.39	23.77	26.13	5.18	1.22	3.96	1.89	1.06	0.82	0.05	5067.17	1.10	0.08	4,643.81

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 2: 2021 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.53	23.27	25.73	51.32	1.32	50.00	11.58	1.18	10.40	0.05	4,641.30	1.22	0.05	4,687.68
Grading/Excavation	33.27	333.97	340.40	67.05	17.05	50.00	25.24	14.84	10.40	0.72	70,714.91	15.40	1.11	71,430.41
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	35.80	357.24	366.13	118.38	18.38	100.00	36.81	16.01	20.80	0.76	75,356.20	16.63	1.16	76,118.09
Total (tons/construction project)	2.36	23.72	24.19	5.17	1.21	3.96	1.88	1.05	0.82	0.05	5,019.17	1.10	0.08	5,069.95

Notes:

Project Start Year ->	2021
Project Length (months) ->	7
Total Project Area (acres) ->	69
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	35	0	78	0	560	40
Grading/Excavation	2,015	0	5,535	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 2: 2021 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.02	0.20	0.23	0.45	0.01	0.44	0.10	0.01	0.09	0.00	40.84	0.01	0.00	37.42
Grading/Excavation	2.34	23.51	23.96	4.72	1.20	3.52	1.78	1.04	0.73	0.05	4,978.33	1.08	0.08	4,562.01
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	2.34	23.51	23.96	4.72	1.20	3.52	1.78	1.04	0.73	0.05	4978.33	1.08	0.08	4,562.01
Total (tons/construction project)	2.36	23.72	24.19	5.17	1.21	3.96	1.88	1.05	0.82	0.05	5019.17	1.10	0.08	4,599.43

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 2: 2021 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.33	28.05	5.41	50.24	0.24	50.00	10.58	0.18	10.40	0.05	4,641.30	1.22	0.05	4,687.68
Grading/Excavation	16.69	342.40	54.26	53.39	3.39	50.00	12.64	2.24	10.40	0.72	70,714.91	15.40	1.11	71,430.41
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	18.03	370.45	59.67	103.63	3.63	100.00	23.22	2.42	20.80	0.76	75,356.20	16.63	1.16	76,118.09
Total (tons/construction project)	1.19	24.35	3.87	4.20	0.24	3.96	0.98	0.16	0.82	0.05	5,019.17	1.10	0.08	5,069.95

Notes:

Project Start Year ->	2021
Project Length (months) ->	7
Total Project Area (acres) ->	69
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	35	0	78	0	560	40
Grading/Excavation	2,015	0	5,535	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 2: 2021 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.25	0.05	0.44	0.00	0.44	0.09	0.00	0.09	0.00	40.84	0.01	0.00	37.42
Grading/Excavation	1.18	24.11	3.82	3.76	0.24	3.52	0.89	0.16	0.73	0.05	4,978.33	1.08	0.08	4,562.01
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.18	24.11	3.82	3.76	0.24	3.52	0.89	0.16	0.73	0.05	4978.33	1.08	0.08	4,562.01
Total (tons/construction project)	1.19	24.35	3.87	4.20	0.24	3.96	0.98	0.16	0.82	0.05	5019.17	1.10	0.08	4,599.43

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Sac River S/S Contract 3: 2022 Vegetation and Cutoff Wall	
Construction Start Year	2022	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	7.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	2.30	miles
Total Project Area	28.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	35.00
	Grading/Excavation	15.00	1922.00	36.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	1.20	0.70	4/1/2022	1/1/2022
Grading/Excavation	5.60	3.15	5/8/2022	2/7/2022
Drainage/Utilities/Sub-Grade	0.00	2.10		7/28/2022
Paving	0.00	1.05		7/28/2022
Totals (Months)	7			

Program

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be used.

Please note: You have entered a different number of months than the project length shown in cell D16.
Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	26.00			3	78.00
Miles/round trip: Grading/Excavation	41.00			131	5371.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.02	0.07	0.56	0.02	0.01	0.00	274.55	0.00	0.01	277.35
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.01	0.00	0.00	0.00	3.62	0.00	0.00	3.66
Pounds per day - Grading/Excavation	1.16	5.08	38.27	1.33	0.59	0.18	18,905.54	0.05	0.64	19,097.92
Tons per const. Period - Grading/Excavation	0.07	0.31	2.36	0.08	0.04	0.01	1,164.58	0.00	0.04	1,176.43
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.07	0.31	2.37	0.08	0.04	0.01	1,168.21	0.00	0.04	1,180.09

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	14		28	560.00
No. of employees: Grading/Excavation	100		200	4,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Grading/Excavation (grams/mile)	0.02	0.92	0.09	0.05	0.02	0.00	348.29	0.01	0.00	349.59
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Grading/Excavation (grams/trip)	0.87	2.06	0.16	0.00	0.00	0.00	79.59	0.01	0.01	81.77
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.07	1.26	0.12	0.06	0.02	0.00	434.90	0.01	0.01	436.65
Tons per const. Period - Grubbing/Land Clearing	0.00	0.02	0.00	0.00	0.00	0.00	5.74	0.00	0.00	5.76
Pounds per day - Grading/Excavation	0.53	9.00	0.88	0.41	0.17	0.03	3,106.46	0.07	0.04	3,118.95
Tons per const. Period - Grading/Excavation	0.03	0.55	0.05	0.03	0.01	0.00	191.36	0.00	0.00	192.13
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.03	0.57	0.06	0.03	0.01	0.00	197.10	0.00	0.00	197.89

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	2		40.00		80.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Grading/Excavation (grams/mile)	0.10	0.43	3.23	0.11	0.05	0.02	1,596.61	0.00	0.05	1,612.86
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.04	0.29	0.01	0.00	0.00	140.80	0.00	0.00	142.23
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	1.86	0.00	0.00	1.88
Pounds per day - Grading/Excavation	0.02	0.08	0.57	0.02	0.01	0.00	281.59	0.00	0.01	284.46
Tons per const. Period - Grading/Excavation	0.00	0.00	0.04	0.00	0.00	0.00	17.35	0.00	0.00	17.52
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.04	0.00	0.00	0.00	19.20	0.00	0.00	19.40

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			50.00	0.66	10.40	0.14
Fugitive Dust - Grading/Excavation			50.00	3.08	10.40	0.64
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Excavators	0.52	8.40	4.58	0.22	0.20	0.01	1,289.60	0.42	0.01	1,303.50
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Signal Boards	0.07	0.38	0.45	0.02	0.02	0.00	61.64	0.01	0.00	61.96
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.24	2.40	2.25	0.15	0.14	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.42	5.65	4.23	0.23	0.21	0.01	760.86	0.25	0.01	769.05
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		1.25	16.82	11.52	0.62	0.57	0.03	2,419.82	0.77	0.02	2,445.54
	Grubbing/Land Clearing	tons per phase		0.02	0.22	0.15	0.01	0.01	0.00	31.94	0.01	0.00	32.28

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Bore/Drill Rigs	1.04	9.51	10.56	0.34	0.31	0.04	4,257.78	1.38	0.04	4,303.77
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cranes	1.82	9.26	20.47	0.85	0.78	0.03	2,733.67	0.88	0.02	2,763.14
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00			Model Default Tier	Excavators	2.61	41.98	22.92	1.11	1.02	0.07	6,447.99	2.09	0.06	6,517.51
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.41	4.59	3.66	0.18	0.18	0.01	778.79	0.04	0.01	781.46
4.00			Model Default Tier	Graders	2.79	22.10	26.10	1.45	1.33	0.03	3,028.02	0.98	0.03	3,060.56
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.00			Model Default Tier	Other Material Handling Equipment	5.32	74.84	44.62	2.42	2.23	0.12	11,126.92	3.60	0.10	11,246.88
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Rollers	1.26	14.13	13.11	0.76	0.70	0.02	1,929.60	0.62	0.02	1,950.39
10.00			Model Default Tier	Rough Terrain Forklifts	1.40	28.60	18.50	0.65	0.59	0.04	4,171.93	1.35	0.04	4,216.90
10.00			Model Default Tier	Rubber Tired Dozers	10.68	87.59	108.11	4.94	4.55	0.11	10,778.34	3.49	0.10	10,894.12
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.24	2.40	2.25	0.15	0.14	0.00	307.72	0.10	0.00	311.03
6.00			Model Default Tier	Tractors/Loaders/Backhoes	1.25	16.96	12.70	0.68	0.63	0.02	2,282.59	0.74	0.02	2,307.15
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	29.25	314.21	285.70	13.64	12.57	0.50	48,213.20	15.30	0.43	48,724.65
Grading/Excavation	tons per phase	1.80	19.36	17.60	0.84	0.77	0.03	2,969.93	0.94	0.03	3,001.44

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		1.82	19.58	17.75	0.85	0.78	0.03	3,001.87	0.95	0.03	3,033.72

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 3: 2022 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.35	18.19	12.48	50.70	0.70	50.00	11.01	0.61	10.40	0.03	3,270.08	0.78	0.04	3,301.77
Grading/Excavation	30.96	328.37	325.42	65.40	15.40	50.00	23.73	13.33	10.40	0.71	70,506.79	15.42	1.12	71,225.98
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	30.96	328.37	325.42	65.40	15.40	50.00	23.73	13.33	10.40	0.71	70,506.79	15.42	1.12	71,225.98
Total (tons/construction project)	1.93	20.47	20.21	4.70	0.96	3.74	1.61	0.83	0.78	0.04	4,386.38	0.96	0.07	4,431.10

Notes:

Project Start Year ->	2022
Project Length (months) ->	7
Total Project Area (acres) ->	28
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	35	0	78	0	560	40
Grading/Excavation	1,958	0	5,371	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 3: 2022 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.02	0.24	0.16	0.67	0.01	0.66	0.15	0.01	0.14	0.00	43.17	0.01	0.00	39.54
Grading/Excavation	1.91	20.23	20.05	4.03	0.95	3.08	1.46	0.82	0.64	0.04	4,343.22	0.95	0.07	3,980.33
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.91	20.23	20.05	4.03	0.95	3.08	1.46	0.82	0.64	0.04	4343.22	0.95	0.07	3,980.33
Total (tons/construction project)	1.93	20.47	20.21	4.70	0.96	3.74	1.61	0.83	0.78	0.04	4386.38	0.96	0.07	4,019.87

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 3: 2022 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.34	18.18	12.00	50.70	0.70	50.00	11.00	0.60	10.40	0.03	3,257.62	0.78	0.04	3,289.06
Grading/Excavation	30.59	327.68	303.28	65.28	15.28	50.00	23.62	13.22	10.40	0.71	69,931.17	15.40	1.08	70,638.50
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	30.59	327.68	303.28	65.28	15.28	50.00	23.62	13.22	10.40	0.71	69,931.17	15.40	1.08	70,638.50
Total (tons/construction project)	1.90	20.42	18.84	4.69	0.95	3.74	1.60	0.82	0.78	0.04	4,350.76	0.96	0.07	4,394.75

Notes:

Project Start Year ->	2022
Project Length (months) ->	7
Total Project Area (acres) ->	28
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	35	0	78	0	560	40
Grading/Excavation	1,958	0	5,371	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 3: 2022 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.02	0.24	0.16	0.67	0.01	0.66	0.15	0.01	0.14	0.00	43.00	0.01	0.00	39.39
Grading/Excavation	1.88	20.18	18.68	4.02	0.94	3.08	1.46	0.81	0.64	0.04	4,307.76	0.95	0.07	3,947.50
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.88	20.18	18.68	4.02	0.94	3.08	1.46	0.81	0.64	0.04	4307.76	0.95	0.07	3,947.50
Total (tons/construction project)	1.90	20.42	18.84	4.69	0.95	3.74	1.60	0.82	0.78	0.04	4350.76	0.96	0.07	3,986.89

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 3: 2022 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.89	20.43	4.52	50.19	0.19	50.00	10.54	0.14	10.40	0.03	3,257.62	0.78	0.04	3,289.06
Grading/Excavation	16.63	341.55	53.19	53.35	3.35	50.00	12.63	2.23	10.40	0.71	69,931.17	15.40	1.08	70,638.50
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	16.63	341.55	53.19	53.35	3.35	50.00	12.63	2.23	10.40	0.71	69,931.17	15.40	1.08	70,638.50
Total (tons/construction project)	1.04	21.31	3.34	3.95	0.21	3.74	0.92	0.14	0.78	0.04	4,350.76	0.96	0.07	4,394.75

Notes:

Project Start Year ->	2022
Project Length (months) ->	7
Total Project Area (acres) ->	28
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	35	0	78	0	560	40
Grading/Excavation	1,958	0	5,371	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 3: 2022 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.27	0.06	0.66	0.00	0.66	0.14	0.00	0.14	0.00	43.00	0.01	0.00	39.39
Grading/Excavation	1.02	21.04	3.28	3.29	0.21	3.08	0.78	0.14	0.64	0.04	4,307.76	0.95	0.07	3,947.50
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	1.02	21.04	3.28	3.29	0.21	3.08	0.78	0.14	0.64	0.04	4307.76	0.95	0.07	3,947.50
Total (tons/construction project)	1.04	21.31	3.34	3.95	0.21	3.74	0.92	0.14	0.78	0.04	4350.76	0.96	0.07	3,986.89

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model **Version 8.1.0**

Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Sac River S/S Contract 4: 2023 Berms and Relief Wells	
Construction Start Year	2023	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	4.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.25	miles
Total Project Area	9.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing			
	Grading/Excavation	15.00	272.00	71.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.00	0.40	8/1/2020	1/1/2023
Grading/Excavation	4.00	1.80	5/30/2023	1/1/2023
Drainage/Utilities/Sub-Grade	0.00	1.20	9/22/2020	5/3/2023
Paving	0.00	0.60	10/30/2020	5/3/2023
Totals (Months)	4			

Program

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation	34.00			23	782.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.11	0.64	2.26	0.18	0.07	0.03	2,658.27	0.01	0.09	2,685.29
Tons per const. Period - Grading/Excavation	0.00	0.03	0.10	0.01	0.00	0.00	116.96	0.00	0.00	118.15
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.03	0.10	0.01	0.00	0.00	116.96	0.00	0.00	118.15

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing			0	0.00
No. of employees: Grading/Excavation	30		60	1,200.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.02	0.85	0.08	0.05	0.02	0.00	336.27	0.01	0.00	337.46
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.81	1.86	0.14	0.00	0.00	0.00	77.20	0.01	0.01	79.12
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.15	2.50	0.24	0.12	0.05	0.01	899.84	0.02	0.01	903.22
Tons per const. Period - Grading/Excavation	0.01	0.11	0.01	0.01	0.00	0.00	39.59	0.00	0.00	39.74
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.11	0.01	0.01	0.00	0.00	39.59	0.00	0.00	39.74

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust					0.00
Grading/Excavation - Exhaust	1		40.00		40.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.01	0.03	0.12	0.01	0.00	0.00	135.97	0.00	0.00	137.35
Tons per const. Period - Grading/Excavation	0.00	0.00	0.01	0.00	0.00	0.00	5.98	0.00	0.00	6.04
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.01	0.00	0.00	0.00	5.98	0.00	0.00	6.04

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			0.00	0.00	0.00	0.00
Fugitive Dust - Grading/Excavation			50.00	2.20	10.40	0.46
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

Number of Vehicles	Equipment Tier	Type		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
				pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Excavators	0.49	8.40	3.99	0.20	0.18	0.01	1,289.83	0.42	0.01	1,303.73
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.38	4.59	3.39	0.16	0.16	0.01	778.79	0.03	0.01	781.40
4.00			Model Default Tier	Graders	2.47	21.83	22.45	1.24	1.14	0.03	3,027.36	0.98	0.03	3,059.89
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Rollers	1.17	14.07	12.23	0.67	0.62	0.02	1,929.63	0.62	0.02	1,950.42
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Rubber Tired Dozers	4.02	33.16	39.65	1.81	1.67	0.04	4,312.75	1.40	0.04	4,359.08
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.23	2.40	2.13	0.14	0.13	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.38	5.64	3.88	0.19	0.18	0.01	761.71	0.25	0.01	769.91
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	9.56	92.33	90.42	4.51	4.17	0.13	12,777.66	3.83	0.11	12,907.21
Grading/Excavation	tons per phase	0.42	4.06	3.98	0.20	0.18	0.01	562.22	0.17	0.00	567.92

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		0.42	4.06	3.98	0.20	0.18	0.01	562.22	0.17	0.00	567.92

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 4: 2023 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	9.82	95.51	93.03	54.82	4.82	50.00	14.69	4.29	10.40	0.17	16,471.74	3.86	0.22	16,633.07
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	9.82	95.51	93.03	54.82	4.82	50.00	14.69	4.29	10.40	0.17	16,471.74	3.86	0.22	16,633.07
Total (tons/construction project)	0.43	4.20	4.09	2.41	0.21	2.20	0.65	0.19	0.46	0.01	724.76	0.17	0.01	731.86

Notes:

Project Start Year ->	2023
Project Length (months) ->	4
Total Project Area (acres) ->	9
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	343	0	782	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 4: 2023 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.43	4.20	4.09	2.41	0.21	2.20	0.65	0.19	0.46	0.01	724.76	0.17	0.01	663.93
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.43	4.20	4.09	2.41	0.21	2.20	0.65	0.19	0.46	0.01	724.76	0.17	0.01	663.93
Total (tons/construction project)	0.43	4.20	4.09	2.41	0.21	2.20	0.65	0.19	0.46	0.01	724.76	0.17	0.01	663.93

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 4: 2023 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	9.82	95.50	92.83	54.82	4.82	50.00	14.69	4.29	10.40	0.17	16,468.53	3.86	0.21	16,628.96
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	9.82	95.50	92.83	54.82	4.82	50.00	14.69	4.29	10.40	0.17	16,468.53	3.86	0.21	16,628.96
Total (tons/construction project)	0.43	4.20	4.08	2.41	0.21	2.20	0.65	0.19	0.46	0.01	724.62	0.17	0.01	731.67

Notes:

Project Start Year ->	2023
Project Length (months) ->	4
Total Project Area (acres) ->	9
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	343	0	782	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 4: 2023 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.43	4.20	4.08	2.41	0.21	2.20	0.65	0.19	0.46	0.01	724.62	0.17	0.01	663.77
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.43	4.20	4.08	2.41	0.21	2.20	0.65	0.19	0.46	0.01	724.62	0.17	0.01	663.77
Total (tons/construction project)	0.43	4.20	4.08	2.41	0.21	2.20	0.65	0.19	0.46	0.01	724.62	0.17	0.01	663.77

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 4: 2023 Berms and Relief Wells

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	4.34	85.47	15.56	50.89	0.89	50.00	11.06	0.66	10.40	0.17	16,468.53	3.86	0.21	16,628.96
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	4.34	85.47	15.56	50.89	0.89	50.00	11.06	0.66	10.40	0.17	16,468.53	3.86	0.21	16,628.96
Total (tons/construction project)	0.19	3.76	0.68	2.24	0.04	2.20	0.49	0.03	0.46	0.01	724.62	0.17	0.01	731.67

Notes:

Project Start Year ->	2023
Project Length (months) ->	4
Total Project Area (acres) ->	9
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	343	0	782	0	1,200	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 4: 2023 Berms and Relief Wells

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.19	3.76	0.68	2.24	0.04	2.20	0.49	0.03	0.46	0.01	724.62	0.17	0.01	663.77
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.19	3.76	0.68	2.24	0.04	2.20	0.49	0.03	0.46	0.01	724.62	0.17	0.01	663.77
Total (tons/construction project)	0.19	3.76	0.68	2.24	0.04	2.20	0.49	0.03	0.46	0.01	724.62	0.17	0.01	663.77

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Sac River S/S Contract 4: 2023	Vegetation and Cutoff Wall
Construction Start Year	2023	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction
Project Construction Time	2.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.50	miles
Total Project Area	19.00	acres
Maximum Area Disturbed/Day	5.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	9.00
	Grading/Excavation	15.00	2034.00	38.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Program Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing	0.80	0.20	5/1/2023	1/1/2023
Grading/Excavation	1.20	0.90	5/26/2023	1/26/2023
Drainage/Utilities/Sub-Grade	0.00	0.60		3/4/2023
Paving	0.00	0.30		3/4/2023
Totals (Months)	2		Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be used.	

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	26.00			1	26.00
Miles/round trip: Grading/Excavation	41.00			139	5699.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.02	0.08	0.01	0.00	0.00	88.38	0.00	0.00	89.28
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.79
Pounds per day - Grading/Excavation	0.80	4.67	16.45	1.29	0.50	0.18	19,372.72	0.04	0.66	19,569.62
Tons per const. Period - Grading/Excavation	0.01	0.06	0.22	0.02	0.01	0.00	255.72	0.00	0.01	258.32
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.06	0.22	0.02	0.01	0.00	256.50	0.00	0.01	259.10

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F90.

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grade				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D118.

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearing	14		28	560.00
No. of employees: Grading/Excavation	100		200	4,000.00
No. of employees: Drainage/Utilities/Sub-Grade			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.02	0.85	0.08	0.05	0.02	0.00	336.27	0.01	0.00	337.46
Grading/Excavation (grams/mile)	0.02	0.85	0.08	0.05	0.02	0.00	336.27	0.01	0.00	337.46
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip)	0.81	1.86	0.14	0.00	0.00	0.00	77.20	0.01	0.01	79.12
Grading/Excavation (grams/trip)	0.81	1.86	0.14	0.00	0.00	0.00	77.20	0.01	0.01	79.12
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.07	1.17	0.11	0.06	0.02	0.00	419.93	0.01	0.00	421.50
Tons per const. Period - Grubbing/Land Clearing	0.00	0.01	0.00	0.00	0.00	0.00	3.70	0.00	0.00	3.71
Pounds per day - Grading/Excavation	0.50	8.34	0.79	0.41	0.17	0.03	2,999.47	0.06	0.03	3,010.73
Tons per const. Period - Grading/Excavation	0.01	0.11	0.01	0.01	0.00	0.00	39.59	0.00	0.00	39.74
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.01	0.12	0.01	0.01	0.00	0.00	43.29	0.00	0.00	43.45

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	2		40.00		80.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile)	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.03	0.12	0.01	0.00	0.00	135.97	0.00	0.00	137.35
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	1.21
Pounds per day - Grading/Excavation	0.01	0.07	0.23	0.02	0.01	0.00	271.95	0.00	0.01	274.71
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	3.59	0.00	0.00	3.63
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	4.79	0.00	0.00	4.83

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			50.00	0.44	10.40	0.09
Fugitive Dust - Grading/Excavation			50.00	0.66	10.40	0.14
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Cranes	0.86	4.49	9.33	0.39	0.36	0.01	1,366.81	0.44	0.01	1,381.54
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Excavators	0.49	8.40	3.99	0.20	0.18	0.01	1,289.83	0.42	0.01	1,303.73
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Signal Boards	0.07	0.38	0.45	0.02	0.02	0.00	61.64	0.01	0.00	61.96
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.23	2.40	2.13	0.14	0.13	0.00	307.72	0.10	0.00	311.03
2.00			Model Default Tier	Tractors/Loaders/Backhoes	0.38	5.64	3.88	0.19	0.18	0.01	761.71	0.25	0.01	769.91
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grubbing/Land Clearing	pounds per day	2.03	21.30	19.79	0.93	0.86	0.04	3,787.72	1.21	0.03	3,828.18
	Grubbing/Land Clearing	tons per phase	0.02	0.19	0.17	0.01	0.01	0.00	33.33	0.01	0.00	33.69

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Bore/Drill Rigs	1.00	9.47	9.51	0.31	0.28	0.04	4,266.36	1.38	0.04	4,312.42
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.00			Model Default Tier	Cranes	1.72	8.97	18.66	0.78	0.72	0.03	2,733.62	0.88	0.02	2,763.09
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00			Model Default Tier	Excavators	2.43	42.01	19.97	0.98	0.90	0.07	6,449.15	2.09	0.06	6,518.67
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Generator Sets	0.38	4.59	3.39	0.16	0.16	0.01	778.79	0.03	0.01	781.40
4.00			Model Default Tier	Graders	2.47	21.83	22.45	1.24	1.14	0.03	3,027.36	0.98	0.03	3,059.89
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.00			Model Default Tier	Other Material Handling Equipment	5.11	74.71	41.68	2.26	2.08	0.12	11,126.92	3.60	0.10	11,246.88
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Rollers	1.17	14.07	12.23	0.67	0.62	0.02	1,929.63	0.62	0.02	1,950.42
10.00			Model Default Tier	Rough Terrain Forklifts	1.32	28.59	17.49	0.56	0.52	0.04	4,172.55	1.35	0.04	4,217.51
10.00			Model Default Tier	Rubber Tired Dozers	10.04	82.89	99.13	4.53	4.17	0.11	10,781.87	3.49	0.10	10,897.71
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.00			Model Default Tier	Signal Boards	0.43	2.26	2.70	0.10	0.10	0.01	369.85	0.04	0.00	371.73
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Sweepers/Scrubbers	0.23	2.40	2.13	0.14	0.13	0.00	307.72	0.10	0.00	311.03
6.00			Model Default Tier	Tractors/Loaders/Backhoes	1.15	16.91	11.64	0.57	0.53	0.02	2,285.14	0.74	0.02	2,309.73
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	pounds per day	27.45	308.70	260.98	12.30	11.34	0.50	48,228.98	15.30	0.43	48,740.49
Grading/Excavation	tons per phase	0.36	4.07	3.44	0.16	0.15	0.01	636.62	0.20	0.01	643.37

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Drainage/Utilities/Sub-Grade	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Drainage/Utilities/Sub-Grade	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Other Material Handling Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =>		0.38	4.26	3.62	0.17	0.16	0.01	669.95	0.21	0.01	677.06

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F424.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63	10.00	8
Air Compressors		78	10.00	8
Bore/Drill Rigs		206	10.00	8
Cement and Mortar Mixers		9	10.00	8
Concrete/Industrial Saws		81	10.00	8
Cranes		226	10.00	8
Crawler Tractors		208	10.00	8
Crushing/Proc. Equipment		85	10.00	8
Excavators		163	10.00	8
Forklifts		89	10.00	8
Generator Sets		84	10.00	8
Graders		175	10.00	8
Off-Highway Tractors		123	10.00	8
Off-Highway Trucks		400	10.00	8
Other Construction Equipment		172	10.00	8
Other General Industrial Equipment		88	10.00	8
Other Material Handling Equipment		167	10.00	8
Pavers		126	10.00	8
Paving Equipment		131	10.00	8
Plate Compactors		8	10.00	8
Pressure Washers		13	10.00	8
Pumps		84	10.00	8
Rollers		81	10.00	8
Rough Terrain Forklifts		100	10.00	8
Rubber Tired Dozers		255	10.00	8
Rubber Tired Loaders		200	10.00	8
Scrapers		362	10.00	8
Signal Boards		6	10.00	8
Skid Steer Loaders		65	10.00	8
Surfacing Equipment		254	10.00	8
Sweepers/Scrubbers		64	10.00	8
Tractors/Loaders/Backhoes		98	10.00	8
Trenchers		81	10.00	8
Welders		46	10.00	8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 4: 2023 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.11	22.52	20.09	51.00	1.00	50.00	11.29	0.89	10.40	0.05	4,432.00	1.22	0.05	4,476.32
Grading/Excavation	28.76	321.77	278.45	64.02	14.02	50.00	22.42	12.02	10.40	0.72	70,873.11	15.40	1.13	71,595.56
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	28.76	321.77	278.45	64.02	14.02	50.00	22.42	12.02	10.40	0.72	70,873.11	15.40	1.13	71,595.56
Total (tons/construction project)	0.40	4.45	3.85	1.29	0.19	1.10	0.40	0.17	0.23	0.01	974.53	0.21	0.02	984.45

Notes:

Project Start Year ->	2023
Project Length (months) ->	2
Total Project Area (acres) ->	19
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	9	0	26	0	560	40
Grading/Excavation	2,072	0	5,699	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 4: 2023 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.02	0.20	0.18	0.45	0.01	0.44	0.10	0.01	0.09	0.00	39.00	0.01	0.00	35.74
Grading/Excavation	0.38	4.25	3.68	0.85	0.19	0.66	0.30	0.16	0.14	0.01	935.53	0.20	0.01	857.35
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.38	4.25	3.68	0.85	0.19	0.66	0.30	0.16	0.14	0.01	935.53	0.20	0.01	857.35
Total (tons/construction project)	0.40	4.45	3.85	1.29	0.19	1.10	0.40	0.17	0.23	0.01	974.53	0.21	0.02	893.09

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 4: 2023 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	2.11	22.52	20.07	51.00	1.00	50.00	11.29	0.89	10.40	0.05	4,431.74	1.22	0.05	4,475.99
Grading/Excavation	28.75	321.75	277.06	64.01	14.01	50.00	22.41	12.01	10.40	0.72	70,850.57	15.39	1.11	71,566.64
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	28.75	321.75	277.06	64.01	14.01	50.00	22.41	12.01	10.40	0.72	70,850.57	15.39	1.11	71,566.64
Total (tons/construction project)	0.40	4.45	3.83	1.29	0.19	1.10	0.40	0.17	0.23	0.01	974.23	0.21	0.02	984.07

Notes:

Project Start Year ->	2023
Project Length (months) ->	2
Total Project Area (acres) ->	19
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	9	0	26	0	560	40
Grading/Excavation	2,072	0	5,699	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 4: 2023 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.02	0.20	0.18	0.45	0.01	0.44	0.10	0.01	0.09	0.00	39.00	0.01	0.00	35.73
Grading/Excavation	0.38	4.25	3.66	0.84	0.18	0.66	0.30	0.16	0.14	0.01	935.23	0.20	0.01	857.01
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.38	4.25	3.66	0.84	0.18	0.66	0.30	0.16	0.14	0.01	935.23	0.20	0.01	857.01
Total (tons/construction project)	0.40	4.45	3.83	1.29	0.19	1.10	0.40	0.17	0.23	0.01	974.23	0.21	0.02	892.74

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Sac River S/S Contract 4: 2023 Vegetation and Cutoff Wall

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	1.31	27.81	5.19	50.23	0.23	50.00	10.57	0.17	10.40	0.05	4,431.74	1.22	0.05	4,475.99
Grading/Excavation	16.58	341.14	51.69	53.42	3.42	50.00	12.65	2.25	10.40	0.72	70,850.57	15.39	1.11	71,566.64
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	16.58	341.14	51.69	53.42	3.42	50.00	12.65	2.25	10.40	0.72	70,850.57	15.39	1.11	71,566.64
Total (tons/construction project)	0.23	4.75	0.73	1.15	0.05	1.10	0.26	0.03	0.23	0.01	974.23	0.21	0.02	984.07

Notes:

Project Start Year ->	2023
Project Length (months) ->	2
Total Project Area (acres) ->	19
Maximum Area Disturbed/Day (acres) ->	5
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	9	0	26	0	560	40
Grading/Excavation	2,072	0	5,699	0	4,000	80
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Sac River S/S Contract 4: 2023 Vegetation and Cutoff Wall

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.24	0.05	0.44	0.00	0.44	0.09	0.00	0.09	0.00	39.00	0.01	0.00	35.73
Grading/Excavation	0.22	4.50	0.68	0.71	0.05	0.66	0.17	0.03	0.14	0.01	935.23	0.20	0.01	857.01
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.22	4.50	0.68	0.71	0.05	0.66	0.17	0.03	0.14	0.01	935.23	0.20	0.01	857.01
Total (tons/construction project)	0.23	4.75	0.73	1.15	0.05	1.10	0.26	0.03	0.23	0.01	974.23	0.21	0.02	892.74

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Mitigation Sites

Road Construction Emissions Model
Data Entry Worksheet

Version 8.1.0

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with
yellow or blue background can be modified. Program defaults have a white background
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project type
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new proje

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Input Type

Project Name	Mitigation	
Construction Start Year	2023	Enter a Year between 2014 and 2025 (inclusive)
Project Type For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee constructi
Project Construction Time	6.00	months
Working Days per Month	22.00	days (assume 22 if unknown)
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22)	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the Ione formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta)
Project Length	0.47	miles
Total Project Area	50.00	acres
Maximum Area Disturbed/Day	50.00	acres
Water Trucks Used?	1	1. Yes 2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd^3) (assume 20 if unknown)	Import Volume (yd^3/day)	Export Volume (yd^3/day)
Soil	Grubbing/Land Clearing	15.00	0.00	6.00
	Grading/Excavation	15.00	0.00	91.00
	Drainage/Utilities/Sub-Grade			
	Paving			
Asphalt	Grubbing/Land Clearing			
	Grading/Excavation			
	Drainage/Utilities/Sub-Grade			
	Paving			

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
Off-road Equipment Emissions Mitigation	No Mitigation	Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/ceqa/mitigation.shtml). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standa

The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selecte

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F5

Construction Periods	User Override of Construction Months	m Calculated Months	User Override of Phase Starting Date	m Default Phase Starting Date
Grubbing/Land Clearing	0.60	0.60	4/15/2023	1/1/2023
Grading/Excavation	5.40	2.70	5/4/2023	1/20/2023
Drainage/Utilities/Sub-Grade	0.00	1.80		7/4/2023
Paving	0.00	0.90		7/4/2023
Totals (Months)		6		

Note: You have entered a non-default starting date. Please provide starting date for all phases, or default values for other phases will be us

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F6

Soil Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing	20.00			1	20.00
Miles/round trip: Grading/Excavation	20.00			7	140.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.02	0.06	0.00	0.00	0.00	67.99	0.00	0.00	68.68
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.45
Pounds per day - Grading/Excavation	0.02	0.11	0.40	0.03	0.01	0.00	475.90	0.00	0.02	480.74
Tons per const. Period - Grading/Excavation	0.00	0.01	0.02	0.00	0.00	0.00	28.27	0.00	0.00	28.56
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.01	0.02	0.00	0.00	0.00	28.72	0.00	0.00	29.01

Note: Asphalt Hauling emission default values can be overridden in cells D87 through D90, and F87 through F9

Asphalt Hauling Emissions User Input	User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT
Miles/round trip: Grubbing/Land Clearing				0	0.00
Miles/round trip: Grading/Excavation				0	0.00
Miles/round trip: Drainage/Utilities/Sub-Grad				0	0.00
Miles/round trip: Paving				0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Worker commute default values can be overridden in cells D113 through D11

Worker Commute Emissions User Input	User Override of Worker Commute Default Values	Default Values	Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	20			
One-way trips/day	2			
No. of employees: Grubbing/Land Clearin	40		80	1,600.00
No. of employees: Grading/Excavatio	75		150	3,000.00
No. of employees: Drainage/Utilities/Sub-Grad			0	0.00
No. of employees: Paving			0	0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.02	0.85	0.08	0.05	0.02	0.00	336.27	0.01	0.00	337.46
Grading/Excavation (grams/mile	0.02	0.85	0.08	0.05	0.02	0.00	336.27	0.01	0.00	337.46
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grubbing/Land Clearing (grams/trip	0.81	1.86	0.14	0.00	0.00	0.00	77.20	0.01	0.01	79.12
Grading/Excavation (grams/trip	0.81	1.86	0.14	0.00	0.00	0.00	77.20	0.01	0.01	79.12
Draining/Utilities/Sub-Grade (grams/trip	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.20	3.34	0.32	0.16	0.07	0.01	1,199.79	0.02	0.01	1,204.29
Tons per const. Period - Grubbing/Land Clearing	0.00	0.02	0.00	0.00	0.00	0.00	7.92	0.00	0.00	7.95
Pounds per day - Grading/Excavation	0.37	6.26	0.59	0.31	0.13	0.02	2,249.60	0.04	0.02	2,258.05
Tons per const. Period - Grading/Excavation	0.02	0.37	0.04	0.02	0.01	0.00	133.63	0.00	0.00	134.13
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.02	0.39	0.04	0.02	0.01	0.00	141.55	0.00	0.00	142.08

Note: Water Truck default values can be overridden in cells D145 through D148, and F145 through F148.

Water Truck Emissions User Input	User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Miles Traveled/Vehicle/Day	Default Values Miles Traveled/Vehicle/Day	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	1		40.00		40.00
Grading/Excavation - Exhaust	1		40.00		40.00
Drainage/Utilities/Subgrade					0.00
Paving					0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Grading/Excavation (grams/mile	0.06	0.37	1.31	0.10	0.04	0.01	1,541.90	0.00	0.05	1,557.58
Draining/Utilities/Sub-Grade (grams/mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/mile)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	**ROG**	**CO**	**NOx**	**PM10**	**PM2.5**	**SOx**	**CO2**	**CH4**	**N2O**	**CO2e**
Pounds per day - Grubbing/Land Clearing	0.01	0.03	0.12	0.01	0.00	0.00	135.97	0.00	0.00	137.35
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.91
Pounds per day - Grading/Excavation	0.01	0.03	0.12	0.01	0.00	0.00	135.97	0.00	0.00	137.35
Tons per const. Period - Grading/Excavation	0.00	0.00	0.01	0.00	0.00	0.00	8.08	0.00	0.00	8.16
Pounds per day - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction projec	0.00	0.00	0.01	0.00	0.00	0.00	8.97	0.00	0.00	9.07

Note: Fugitive dust default values can be overridden in cells D171 through D173.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing			500.00	3.30	104.00	0.69
Fugitive Dust - Grading/Excavation			500.00	29.70	104.00	6.18
Fugitive Dust - Drainage/Utilities/Subgrade			0.00	0.00	0.00	0.00

Values in cells D183 through D216, D234 through D267, D285 through D318, and D336 through D369 are required when 'Other Project Type' is selecte

Off-Road Equipment Emissions

Grubbing/Land Clearing	Default Number of Vehicles	Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.00			Model Default Tie	Excavators	0.58	10.08	4.79	0.23	0.22	0.02	1,547.80	0.50	0.01	1,564.48
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.18	1.92	1.71	0.11	0.10	0.00	246.18	0.08	0.00	248.83
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grubbing/Land Clearing	pounds per day	0.77	12.00	6.50	0.34	0.32	0.02	1,793.97	0.58	0.02	1,813.31
Grubbing/Land Clearing	tons per phase	0.01	0.08	0.04	0.00	0.00	0.00	11.84	0.00	0.00	11.97

Grading/Excavation	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Excavators	0.39	6.72	3.20	0.16	0.14	0.01	1,031.86	0.33	0.01	1,042.99
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Generator Sets	0.31	3.67	2.72	0.13	0.13	0.01	623.04	0.03	0.00	625.12
1.00			Model Default Tie	Graders	0.49	4.37	4.49	0.25	0.23	0.01	605.47	0.20	0.01	611.98
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tie	Other Construction Equipment	0.70	8.01	6.88	0.36	0.33	0.01	1,196.52	0.39	0.01	1,209.45
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Rubber Tired Dozers	0.80	6.63	7.93	0.36	0.33	0.01	862.55	0.28	0.01	871.82
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tie	Sweepers/Scrubbers	0.18	1.92	1.71	0.11	0.10	0.00	246.18	0.08	0.00	248.83
2.00			Model Default Tie	Tractors/Loaders/Backhoes	0.31	4.51	3.10	0.15	0.14	0.01	609.37	0.20	0.01	615.93
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Grading/Excavation	pounds per day	3.18	35.82	30.02	1.51	1.40	0.05	5,174.99	1.50	0.05	5,226.10
	Grading/Excavation	tons per phase	0.19	2.13	1.78	0.09	0.08	0.00	307.39	0.09	0.00	310.43

Drainage/Utilities/Subgrade	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Drainage/Utilities/Sub-Grade	pounds per day		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade	tons per phase		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Paving	Default Number of Vehicles	Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Mitigation Option Default Equipment Tier		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Override of Default Number of Vehicles	*Program-estimate*		Equipment Tier	Type	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00			Model Default Tie	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other General Industrial Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Other Material Handling Equipmen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00			Model Default Tie	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

User-Defined Off-road Equipment	If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' t			ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Number of Vehicles	Equipment Tier	Type		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Paving	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Paving	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions all Phases (tons per construction period) =			0.19	2.21	1.83	0.09	0.09	0.00	319.23	0.09	0.00	322.40

Equipment default values for horsepower and hours/day can be overridden in cells D391 through D424 and F391 through F4

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		206		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		226		8
Crawler Tractors		208		8
Crushing/Proc. Equipment		85		8
Excavators		163		8
Forklifts		89		8
Generator Sets		84		8
Graders		175		8
Off-Highway Tractors		123		8
Off-Highway Trucks		400		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		167		8
Pavers		126		8
Paving Equipment		131		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		81		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		255		8
Rubber Tired Loaders		200		8
Scrapers		362		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		254		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		98		8
Trenchers		81		8
Welders		46		8

END OF DATA ENTRY SHEET

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Mitigation				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	0.97	15.39	6.99	500.52	0.52	500.00	104.39	0.39	104.00	0.03	3,197.72	0.60	0.04	3,223.64
Grading/Excavation	3.57	42.22	31.13	501.86	1.86	500.00	105.55	1.55	104.00	0.08	8,036.48	1.55	0.09	8,102.25
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	3.57	42.22	31.13	501.86	1.86	500.00	105.55	1.55	104.00	0.08	8,036.48	1.55	0.09	8,102.25
Total (tons/construction project)	0.22	2.61	1.90	33.11	0.11	33.00	6.96	0.09	6.86	0.01	498.47	0.10	0.01	502.55

Notes:

Project Start Year ->	2023
Project Length (months) ->	6
Total Project Area (acres) ->	50
Maximum Area Disturbed/Day (acres) ->	50
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	6	0	20	0	1,600	40
Grading/Excavation	91	0	140	0	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Mitigation				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.01	0.10	0.05	3.30	0.00	3.30	0.69	0.00	0.69	0.00	21.10	0.00	0.00	19.30
Grading/Excavation	0.21	2.51	1.85	29.81	0.11	29.70	6.27	0.09	6.18	0.00	477.37	0.09	0.01	436.61
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.21	2.51	1.85	29.81	0.11	29.70	6.27	0.09	6.18	0.00	477.37	0.09	0.01	436.61
Total (tons/construction project)	0.22	2.61	1.90	33.11	0.11	33.00	6.96	0.09	6.86	0.01	498.47	0.10	0.01	455.91

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for ->	Mitigation			Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**PM2.5 (lbs/day)**	**SOx (lbs/day)**	**CO2 (lbs/day)**	**CH4 (lbs/day)**	**N2O (lbs/day)**	**CO2e (lbs/day)**
Grubbing/Land Clearing	0.97	15.39	6.97	500.52	0.52	500.00	104.39	0.39	104.00	0.03	3,197.49	0.60	0.04	3,223.34
Grading/Excavation	3.57	42.22	31.08	501.86	1.86	500.00	105.55	1.55	104.00	0.08	8,035.77	1.55	0.09	8,101.35
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	3.57	42.22	31.08	501.86	1.86	500.00	105.55	1.55	104.00	0.08	8,035.77	1.55	0.09	8,101.35
Total (tons/construction project)	0.22	2.61	1.89	33.11	0.11	33.00	6.96	0.09	6.86	0.01	498.43	0.10	0.01	502.49

Notes:

Project Start Year ->	2023
Project Length (months) ->	6
Total Project Area (acres) ->	50
Maximum Area Disturbed/Day (acres) ->	50
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	6	0	20	0	1,600	40
Grading/Excavation	91	0	140	0	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for ->	Mitigation			Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	**ROG (tons/phase)**	**CO (tons/phase)**	**NOx (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM10 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**PM2.5 (tons/phase)**	**SOx (tons/phase)**	**CO2 (tons/phase)**	**CH4 (tons/phase)**	**N2O (tons/phase)**	**CO2e (MT/phase)**
Grubbing/Land Clearing	0.01	0.10	0.05	3.30	0.00	3.30	0.69	0.00	0.69	0.00	21.10	0.00	0.00	19.30
Grading/Excavation	0.21	2.51	1.85	29.81	0.11	29.70	6.27	0.09	6.18	0.00	477.32	0.09	0.01	436.56
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.21	2.51	1.85	29.81	0.11	29.70	6.27	0.09	6.18	0.00	477.32	0.09	0.01	436.56
Total (tons/construction project)	0.22	2.61	1.89	33.11	0.11	33.00	6.96	0.09	6.86	0.01	498.43	0.10	0.01	455.86

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

Road Construction Emissions Model, Version 8.1.0

Daily Emission Estimates for -> Mitigation

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.79	17.43	3.18	500.24	0.24	500.00	104.13	0.13	104.00	0.03	3,197.49	0.60	0.04	3,223.34
Grading/Excavation	2.02	42.59	5.85	500.51	0.51	500.00	104.30	0.30	104.00	0.08	8,035.77	1.55	0.09	8,101.35
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (pounds/day)	2.02	42.59	5.85	500.51	0.51	500.00	104.30	0.30	104.00	0.08	8,035.77	1.55	0.09	8,101.35
Total (tons/construction project)	0.13	2.65	0.37	33.03	0.03	33.00	6.88	0.02	6.86	0.01	498.43	0.10	0.01	502.49

Notes:

Project Start Year ->	2023
Project Length (months) ->	6
Total Project Area (acres) ->	50
Maximum Area Disturbed/Day (acres) ->	50
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	6	0	20	0	1,600	40
Grading/Excavation	91	0	140	0	3,000	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	0	0	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Mitigation

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.01	0.12	0.02	3.30	0.00	3.30	0.69	0.00	0.69	0.00	21.10	0.00	0.00	19.30
Grading/Excavation	0.12	2.53	0.35	29.73	0.03	29.70	6.20	0.02	6.18	0.00	477.32	0.09	0.01	436.56
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum (tons/phase)	0.12	2.53	0.35	29.73	0.03	29.70	6.20	0.02	6.18	0.00	477.32	0.09	0.01	436.56
Total (tons/construction project)	0.13	2.65	0.37	33.03	0.03	33.00	6.88	0.02	6.86	0.01	498.43	0.10	0.01	455.86

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

APPENDIX C

Updated Emissions Summary Tables (Based on Project Schedule as of March 2020)

Table 1 - Revised
American River Common Features (ARCF) 2016
Air Quality Emissions by Year and Project
DRAFT - Final Estimates for Review

2019

Project	*Tons/year (Umitigated)*			
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**
Reach D Contract 1 (SREL Seepage Berm)[1]	0.02	0.15	0.07	0.02
Reach D Contract 1 (Beach Stone Lake Mitigation Site)[1]	0.02	0.32	3.21	0.68
Total Emissions (Sum)	**0.0**	**0.5**	**3.3**	**0.7**

2020

90% **Specified % of HP mitigated with Tier 4 controls**

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
Sacramento River Seepage/ Stability Contract 1 _ Berm and Wells	0.63	6.60	2.53	0.75	0.26	0.83	0.26	0.83	0.26	0.83
Sacramento River Seepage/ Stability Contract 1 _ Cutoff Wall	2.82	31.60	5.77	2.18	1.30	4.27	1.30	4.27	1.30	4.27
Total Emissions (Sum)	**3.4**	**38.2**	**8.3**	**2.9**	**1.6**	**5.1**	**1.6**	**5.1**	**1.6**	**5.1**

2021

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
American River Erosion Contract 1	0.26	2.34	0.49	0.14	0.26	2.34	0.20	0.90	0.19	0.74
Sacramento River Erosion Contract 1	0.19	0.74	0.32	0.09	0.19	0.74	0.19	0.74	0.19	0.74
Sacramento River Erosion Contract 1 - Barge Emissions[2]	0.08	1.24	0.05	0.05	0.08	1.24	0.08	1.24	0.08	1.24
Sacramento Weir	1.22	15.78	39.37	8.56	1.16	12.00	0.76	4.78	0.71	3.97
Sacramento Weir - Barge Emissions[2]	0.09	1.23	0.07	0.06	0.09	1.23	0.09	1.23	0.09	1.23
Sacramento River Seepage/ Stability Contract 2 - Berm and Wells	0.51	5.17	1.59	0.51	0.51	4.99	0.22	1.13	0.19	0.71
Sacramento River Seepage/ Stability Contract 2 - Cutoff Wall	2.39	26.13	5.18	1.89	2.36	24.19	1.30	5.90	1.19	3.87
Total Emissions (Sum)	**4.8**	**52.6**	**47.1**	**11.3**	**4.7**	**46.7**	**2.8**	**15.9**	**2.6**	**12.5**

Table 1 - Revised
American River Common Features (ARCF) 2016
Air Quality Emissions by Year and Project
DRAFT - Final Estimates for Review

2022

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
Mitigation	0.22	1.90	33.11	6.96	0.22	1.89	0.13	0.52	0.13	0.37
American River Erosion Contract 2	1.34	24.78	1.91	0.81	1.19	15.01	0.76	8.21	0.71	7.46
Sacramento River Erosion Contract 2 - Part 1	0.61	5.95	1.34	0.48	0.61	5.89	0.32	1.50	0.29	1.01
Sacramento River Erosion Contract 2 - Part 1 Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento River Erosion Contract 2 - Part 2	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 2 - Part 2 Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento Weir	1.76	16.98	53.59	11.67	1.75	16.14	1.11	4.47	1.04	3.17
Sacramento River Seepage/ Stability Contract 3 - Cutoff Wall	1.93	20.21	4.70	1.61	1.90	18.84	1.12	4.89	1.04	3.34
Magpie Creek	0.52	8.34	0.67	0.30	0.48	5.45	0.33	3.03	0.31	2.77
Total Emissions (Sum)	**7.8**	**94.6**	**97.2**	**22.8**	**7.6**	**79.6**	**5.0**	**35.3**	**4.7**	**30.3**

2023

Project	*Tons/year (Umitigated)*				*Tons/year (On-Road Mitigated)*		*Tons/year (On-Road & Tier 4 Mitigated at Specified %)*		*Tons/year (On-Road & All Tier 4 Mitigated)*	
	ROG	**NO_x**	**PM_{10}**	**$PM_{2.5}$**	**ROG**	**NO_x**	**ROG**	**NO_x**	**ROG**	**NO_x**
Sacramento River Erosion Contract 3 - Part 1	0.52	4.71	1.28	0.43	0.52	4.71	0.31	1.37	0.29	1.00
Sacramento River Erosion Contract 3 - Part 1 Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
Sacramento River Erosion Contract 3 - Part 2	0.56	5.22	1.30	0.45	0.56	5.18	0.31	1.43	0.29	1.01
Sacramento River Erosion Contract 3 - Part 2 Barge Emissions[2]	0.43	5.61	0.30	0.27	0.43	5.61	0.43	5.61	0.43	5.61
American River Erosion Contract 2	1.24	21.82	1.85	0.75	1.10	13.70	0.75	7.93	0.71	7.29
Sacramento Weir	1.24	10.75	44.52	9.61	1.24	10.74	0.83	2.87	0.79	1.99
Sacramento Weir - Barge Emissions[2]	0.27	3.41	0.19	0.17	0.27	3.41	0.27	3.41	0.27	3.41
Sacramento River Seepage/ Stability Contract 4 - Berm and Wells	0.43	4.09	2.41	0.65	0.43	4.08	0.22	1.02	0.19	0.68
Sacramento River Seepage/ Stability Contract 4 - Cutoff Wall	0.40	3.85	1.29	0.40	0.40	3.83	0.25	1.04	0.23	0.73
Total Emissions (Sum)	**5.5**	**65.1**	**53.4**	**13.0**	**5.4**	**56.9**	**3.8**	**30.3**	**3.6**	**27.3**
General Conformity Thresholds	**25**	**25**	**100**	**100**	**25**	**25**	**25**	**25**	**25**	**25**

Notes: [1] From USACE; [2] No Mitigation

Table 4 - Revised
American River Common Features (ARCF) 2016
Allocation of Annual NOx Emissions to Quarters
Includes Only Years Exceeding General Conformity Threholds After Use of Equipment Mitigation
DRAFT - Final Estimates for Review

2021

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*								
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
American River Erosion Contract 1	0.90			33%	67%	0.0	0.0	0.3	0.6
Sacramento River Erosion Contract 1	0.74			50%	50%	0.0	0.0	0.4	0.4
Sacramento River Erosion Contract 1 - Barge	1.24			50%	50%	0.0	0.0	0.6	0.6
Sacramento Weir	4.78	13%	32%	42%	13%	0.6	1.5	2.0	0.6
Sacramento Weir - Barge Emissions[2]	1.23	13%	32%	42%	13%	0.2	0.4	0.5	0.2
Sacramento River Seepage/ Stability Contract 2 - Berm and Wells	1.13		25%	38%	38%	0.0	0.3	0.4	0.4
Sacramento River Seepage/ Stability Contract 2 - Cutoff Wall	5.90		43%	43%	14%	0.0	2.5	2.5	0.8
Total Emissions (Sum)	**15.9**					0.8	4.7	6.8	3.6

2022

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Mitigation	0.52	25%	25%	25%	25%	0.1	0.1	0.1	0.1
American River Erosion Contract 2	8.21			33%	67%	0.0	0.0	2.7	5.5
Sacramento River Erosion Contract 2 - Part 1	1.50			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Part 1 Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Erosion Contract 2 - Part 2	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Part 2 Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento Weir	4.47	25%	25%	25%	25%	1.1	1.1	1.1	1.1
Sacramento River Seepage/ Stability Contract 3 - Cutoff Wall	4.89		43%	43%	14%	0.0	2.1	2.1	0.7
Magpie Creek	3.03		25%	38%	38%	0.0	0.8	1.1	1.1
Total Emissions (Sum)	**35.3**					1.2	4.1	14.3	15.6

2023

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
American River Erosion Contract 2	7.93			33%	67%	0.0	0.0	2.6	5.3
Sacramento River Erosion Contract 3 - Part 1	1.37			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 3 - Part 1 Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Erosion Contract 3 - Part 2	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 3 - Part 2 Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento Weir	2.87	13%	32%	42%	13%	0.4	0.9	1.2	0.4
Sacramento Weir - Barge Emissions[2]	3.41	13%	32%	42%	13%	0.4	1.1	1.4	0.4
Sacramento River Seepage/ Stability Contract 4 - Berm and Wells	1.02		43%	43%	14%	0.0	0.4	0.4	0.1
Sacramento River Seepage/ Stability Contract 4 - Cutoff Wall	1.04		25%	38%	38%	0.0	0.3	0.4	0.4
Total Emissions (Sum)	**30.3**					0.8	2.7	13.1	13.6

Table 5 - Revised
American River Common Features (ARCF) 2016
Allocation of Annual NOx Emissions to Quarters
Emissions Only within Sacramento Metro Air Quality Management District (SMAQMD)
Includes Only Years Exceeding General Conformity Threholds After Use of Equipment Mitigation
DRAFT - Final Estimates for Review

2021

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
American River Erosion Contract 1	0.90			33%	67%	0.0	0.0	0.3	0.6
Sacramento River Erosion Contract 1	0.74			50%	50%	0.0	0.0	0.4	0.4
Sacramento River Erosion Contract 1 - Barge	1.24			50%	50%	0.0	0.0	0.6	0.6
Sacramento River Seepage/ Stability Contract 2 - Berm and Wells	1.13		25%	38%	38%	0.0	0.3	0.4	0.4
Sacramento River Seepage/ Stability Contract 2 - Cutoff Wall	5.90		43%	43%	14%	0.0	2.5	2.5	0.8
Total Emissions (Sum)	**9.9**					0.0	2.8	4.3	2.8

2022

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Mitigation	0.52	25%	25%	25%	25%	0.1	0.1	0.1	0.1
American River Erosion Contract 2	8.21			33%	67%	0.0	0.0	2.7	5.5
Sacramento River Erosion Contract 2 - Part 1	1.50			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Part 1 Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Erosion Contract 2 - Part 2	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 2 - Part 2 Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Seepage/ Stability Contract 3 - Cutoff Wall	4.89		43%	43%	14%	0.0	2.1	2.1	0.7
Magpie Creek	3.03		25%	38%	38%	0.0	0.8	1.1	1.1
Total Emissions (Sum)	**30.8**					0.1	3.0	13.2	14.5

2023

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
American River Erosion Contract 2	7.93			33%	67%	0.0	0.0	2.6	5.3
Sacramento River Erosion Contract 3 - Part 1	1.37			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 3 - Part 1 Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Erosion Contract 3 - Part 2	1.43			50%	50%	0.0	0.0	0.7	0.7
Sacramento River Erosion Contract 3 - Part 2 Barge Emissions[2]	5.61			50%	50%	0.0	0.0	2.8	2.8
Sacramento River Seepage/ Stability Contract 4 - Berm and Wells	1.02		43%	43%	14%	0.0	0.4	0.4	0.1
Sacramento River Seepage/ Stability Contract 4 - Cutoff Wall	1.04		25%	38%	38%	0.0	0.3	0.4	0.4
Total Emissions (Sum)	**24.0**					0.0	0.7	10.5	12.8

Table 6 - Revised
American River Common Features (ARCF) 2016
Allocation of Annual NOx Emissions to Quarters
Emissions Only withinYolo Solano Air Quality Management District (YSAQMD)
Includes Only Years Exceeding General Conformity Threholds After Use of Equipment Mitigation
DRAFT - Final Estimates for Review

2021

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Sacramento Weir	4.78	13%	32%	42%	13%	0.6	1.5	2.0	0.6
Sacramento Weir - Barge Emissions[2]	1.23	13%	32%	42%	13%	0.2	0.4	0.5	0.2
Total Emissions (Sum)	**6.0**					0.8	1.9	2.5	0.8

2022

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Sacramento Weir	4.47	25%	25%	25%	25%	1.1	1.1	1.1	1.1
Total Emissions (Sum)	**4.5**					1.1	1.1	1.1	1.1

2023

Project	*Tons/year (On-Road & 90% Tier 4 Mitigated)*	*Allocation as Percent of Annual Emissions*				*Emissions per Quarter (tons)*			
	NO_x	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Sacramento Weir	2.87	13%	32%	42%	13%	0.4	0.9	1.2	0.4
Sacramento Weir - Barge Emissions[2]	3.41	13%	32%	42%	13%	0.4	1.1	1.4	0.4
Total Emissions (Sum)	**6.3**					0.8	2.0	2.6	0.8

APPENDIX D

Response to Comments on the Draft General Conformity Determination American River Common Features (ARCF) 2016

RESPONSE TO COMMENTS ON THE DRAFT GENERAL CONFORMITY DETERMINATION for AMERICAN RIVER WATERSHED COMMON FEATURES 2016 PROJECT

June 8, 2020

On March 23, 2020 the USACE Sacramento District made public a Draft General Conformity Determination for American River Watershed Common Features, Water Resources Development Act of 2016 Project (ARCF 2016 Project) through a notice of availability printed in the Sacramento Bee newspaper. This public notice initiated a 30-day public review and comment period in accordance with 40 CFR 156. The Draft General Conformity Determination and notice of availability were posted publicly on the USACE Sacramento District ARCF 2016 Project website. Due to COVID-19 pandemic business operations, the public comment period was extended until May 1, 2020. The USACE received the following comment letters (included after the responses):

Comment No.	Commenter	Received
Letter 1	Sacramento Metropolitan Air Quality Management District (SMAQMD)	April 16, 2020
Letter 2	Wilton Rancheria	April 23, 2020
Letter 3	U.S. EPA (Environmental Protection Agency), Region IX, Air Planning	April 23, 2020

Comment Letter 1 – Sacramento Metropolitan Air Quality Management District

Response to Comment

The Commenter stated their commitment to assist the USACE in reducing ARCF 2016 project emissions to below General Conformity *de minimis* thresholds "by providing a nitrogen oxide (NOx) emission reduction credit loan to mitigate emissions occurring in Sacramento County during calendar years 2022 and 2023." The Commenter affirmed that the emissions estimates, emission reduction credit loan process, and milestones are reflected in the Draft GCD. Measures intended to mitigate the air quality impacts are identified on pages 10-11. Mitigation measures discuss the SMAQMD Emission Reduction Credit implementation process and timeframes for the ARCF 2016 Project.

The USACE thanks the Commenter for cooperatively supporting mitigation measures for air quality impacts.

Comment Letter 2 – Wilton Rancheria

Response to Comment

The Commenter requested a copy of the Draft GCD and a phone call to discuss the Determination. The USACE provided an electronic copy of the Draft GCD to the Commenter. The USACE also left a voicemail for the Commenter, identifying the USACE technical staff contact to discuss the Draft GCD and answer questions. The USACE did not receive a return phone call or subsequent email from the Commenter.

Comment Letter 3 – U.S. EPA, Region IX, Air Planning Office

Response to Comment

The Commenter recommended revision clarifying that NOx emissions offsets would occur within the SFONA (regardless of which Air Quality Management District provides the offsets). The Final GCD has been revised to clarify the geographic requirement – that emissions offsets occur within the relevant nonattainment area (p. 11 and Appendix A, A-1).

SACRAMENTO METROPOLITAN
AIR QUALITY
MANAGEMENT DISTRICT

Alberto Ayala, Ph.D., M.S.E.
AIR POLLUTION CONTROL OFFICER

April 16, 2020

General Conformity Determination ARCF 2016 - Planning Team
U.S. Army Corps of Engineers, Sacramento District
1325 J Street
Sacramento, CA 95814

RE: American River Watershed Common Features 2016 Project, Draft General Conformity Determination (SAC201301442)

To Whom It May Concern:

Thank you for providing the Sacramento Metropolitan Air Quality Management District (Sac Metro Air District) with the Draft General Conformity Determination (GCD) for the American River Watershed Common Features 2016 Project (ARCF). The Sac Metro Air District is mandated by California Health and Safety Code §40961 to represent the citizens of Sacramento in influencing the decisions of other agencies whose actions may have an adverse impact on air quality. Consequently, Sac Metro Air District staff has worked closely with U.S. Army Corps of Engineers staff to ensure the ARCF Project will not inhibit air quality attainment efforts in the Sacramento region.

Sac Metro Air District is committed to assist the U.S. Army Corps of Engineers by providing a nitrogen oxide (NOx) emission reduction credit loan to mitigate emissions occurring in Sacramento County during calendar years 2022 and 2023. The loan is necessary since on-site mitigation measures are not enough to reduce project emissions below the General Conformity de minimis NOx threshold. The emissions estimates, loan process, and milestones are reflected in the Draft GCD.

We look forward to continuing to work with the U.S. Army Corps of Engineers on this important flood protection project.

Sincerely,

Alberto Ayala, Ph.D., M.S.E.
Executive Director/Air Pollution Control Officer

cc: Mr. Mark Loutzenhiser, Sac Metro Air District, Planning and Coordination Division Manager
Kevin Williams, Ph.D., Sac Metro Air District, Rules/Emissions Credit/Inventory Program Supervisor
Mr. Jaime Lemus, Sac Metro Air District, Transportation and Climate Change Division Manager
Mr. Paul Philley, Sac Metro Air District, CEQA and Land Use Program Supervisor
Ms. Karen Huss, Sac Metro Air District Associate Planner/Analyst

777 12th Street, 3rd Floor ▮ Sacramento, CA 95814-1908
916/874-4802 ▮ 916/874-4805 fax
www.airquality.org

From: [redacted]_USARMY CESPK (USA)
To: [redacted]_USARMY CESPK (USA)
Subject: FW: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020
Date: Thursday, April 23, 2020 2:13:34 PM
Attachments: image001.png

Wilton Rancheria is requesting a copy of the General Conformity document and a phone call to discuss. See below.

-----Original Message-----
From: SPK-PAO SPK
Sent: Thursday, April 23, 2020 2:04 PM
To: [redacted] USARMY CESPK (USA) [redacted]>
Subject: FW: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020

[redacted]
Public Affairs Specialist
U.S. Army Corps of Engineers - Sacramento District
1325 J St. - Sacramento, CA 95814
[redacted]
Phone: [redacted]

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Follow us on Twitter - www.twitter.com/USACESacramento

-----Original Message-----
From: [redacted] mail to:@wiltonrancheria-nsn.gov]
Sent: Thursday, April 23, 2020 11:30 AM
To: SPK-PAO SPK <SPK-PAO@usace.army.mil>
Subject: [Non-DoD Source] RE: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020

Good morning [redacted],

Is there any way I can request the draft document from you and we can set up a call to discuss this?

Thank you

[redacted]
Wilton Rancheria

Tel: [redacted] | Fax: [redacted]

9728 Kent Street | Elk Grove | CA | 95624

[redacted]@wiltonrancheria-nsn.gov <mail to: @wiltonrancheria-nsn.gov>

wiltonrancheria-nsn.gov <Blockedhttp://wiltonrancheria-nsn.gov/>

From: [redacted] USARMY CESPK (USA) <[redacted]> On Behalf Of SPK-PAOSPK
Sent: Thursday, April 23, 2020 8:22 AM
Subject: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020

USACE Sacramento District will consider public review comments on the Draft General Conformity Determination for American River Watershed Common Features Project (ARCF 2016) received by May 1, 2020. Please see the attached updated notice for more details.

Download the Draft General Conformity Determination for ARCF 2016 at: Blockedwww.sacleveeupgrades.com <Blockedhttp://www.sacleveeupgrades.com>

A public comments legal notice for the Draft General Conformity Determination appeared last month in the Sacramento Bee.

From: [redacted] CIV USARMY CESPK (USA)
To: [redacted]@wiltonrancheria-nsn.gov
Bcc: USARMY CESPK [redacted])
Subject: Draft General Conformity Determination - ARCF 2016 (UNCLASSIFIED)
Date: Monday, April 27, 2020 12:08:00 PM
Attachments: GenConformDeterm_DRAFT_and_AppdxA_2020Mar.pdf
AppdxC_EmissxnsTablesUpdated.pdf

CLASSIFICATION: UNCLASSIFIED

Good Day [redacted],

I just left you voicemail at your office extension with this info about copies of the Draft General Conformity Determination for American River Common Features (2016) levee upgrades. For your convenience, I'm attaching the Draft Determination and updated emissions tables.

These Draft General Conformity Determination files and the modeling data are all available to download on the project website:
| https://www.spk.usace.army.mil/Missions/Civil-Works/Sacramento-Levee-Upgrades/

- Scroll down to: "Current Common Features Report"

Please give me a call if you would like to discuss any technical questions or review comments.

Thank you.

[redacted]

—
[redacted]
Environmental Manager
U.S. Army Corps of Engineers
Sacramento District - Planning Division
Environmental Analysis Section
1325 J St.
Sacramento, CA 95814
[redacted]

CLASSIFICATION: UNCLASSIFIED

From: [redacted] USARMY CESPK (USA)
To: [redacted] USARMY CESPK (USA)
Subject: RE: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020 (UNCLASSIFIED)
Date: Friday, April 24, 2020 6:52:00 PM
Attachments: GenConformDeterm_DRAFT_and_ApdxA_2020Mar.pdf
AppdxC_EmissxnsTablesUpdated.pdf

CLASSIFICATION: UNCLASSIFIED

Draft General Conformity Determination can be downloaded:
https://www.spk.usace.army.mil/Missions/Civil-Works/Sacramento-Levee-Upgrades/
(Scroll down to: "Current Common Features Report")

Attached: Draft General Conformity Determination w/ Appendices A and C.
Appendix B is simply too large to email, but it can be downloaded from the website.
For USACE, it's on ProjectWise (pw://COE-SPKPWS01SAC.spk.ds.usace.army.mil:coe-spkpws01sac.spk.ds.usace.army.mil/Documents/D{dbbbd44f3-4c08-4f88-be89-fa5172d60b42}

**REMINDER: Please delete the red banner on sacleveeupgrades.com that says:
"Public comment period for Sacramento Weir scoping closes on May 1, 2020."

Thank you.

[redacted]

[redacted]
Environmental Manager
U.S. Army Corps of Engineers
Sacramento District - Planning Division
Environmental Analysis Section
1325 J St.
Sacramento, CA 95814
[redacted]

-----Original Message-----
From: [redacted] CIV USARMY CESPK (USA)
Sent: Thursday, April 23, 2020 2:14 PM
To: [redacted] CIV USARMY CESPK (USA) [redacted]
Subject: FW: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020

Wilton Rancheria is requesting a copy of the General Conformity document and a phone call to discuss. See below.

-----Original Message-----
From: SPK-PAO SPK
Sent: Thursday, April 23, 2020 2:04 PM
To: [redacted] CIV USARMY CESPK (USA) [redacted]@usace.army.mil>
Subject: FW: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020

[redacted]
Public Affairs Specialist
U.S. Army Corps of Engineers - Sacramento District

1325 J St. - Sacramento, CA 95814
[redacted]
Phone: [redacted]

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Watch us on YouTube - www.youtube.com/sacramentodistrict
Follow us on Twitter - www.twitter.com/USACESacramento

-----Original Message-----
From: Mariah Mayberry [mailto:[redacted]@wiltonrancheria-nsn.gov]
Sent: Thursday, April 23, 2020 11:30 AM
To: SPK-PAO SPK <SPK-PAO@usace.army.mil>
Subject: [Non-DoD Source] RE: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020

Good morning Tyler,

Is there any way I can request the draft document from you and we can set up a call to discuss this?

Thank you

[redacted]

Wilton Rancheria

Tel: [redacted] | **Fax:** [redacted]

[redacted]

[redacted]@wiltonrancheria-nsn.gov <mailto:[redacted]@wiltonrancheria-nsn.gov>

wiltonrancheria-nsn.gov <Blockedhttp://wiltonrancheria-nsn.gov/>

From: [redacted]) <[redacted]> **On Behalf Of SPK-PAO SPK**
Sent: Thursday, April 23, 2020 8:22 AM
Subject: ARCF 2016 Draft General Conformity Determination comment period extended until May 1, 2020

USACE Sacramento District will consider public review comments on the Draft General Conformity Determination

for American River Watershed Common Features Project (ARCF 2016) received by May 1, 2020. Please see the attached updated notice for more details.

Download the Draft General Conformity Determination for ARCF 2016 at: Blockedwww.sacleveeupgrades.com <Blockedhttp://www.sacleveeupgrades.com>

A public comments legal notice for the Draft General Conformity Determination appeared last month in the Sacramento Bee.

CLASSIFICATION: UNCLASSIFIED

From: Kelly, ThomasP
To: [redacted]
Cc: [redacted] USARMY CESPK (USA)
Subject: [Non-DoD Source] RE: Pre-public release: Draft General Conformity Determination -- ARCF 2016
Date: Monday, March 23, 2020 12:35:12 PM
Attachments: image003.png

I have two comments, the second of which is more of an informational and does not need to result in a change to the conformity determination.

Appendix A, the Offset Agreement with Yolo Solano Air Quality Management District (Appendix A calls it a Maintenance District) states:

> NOX emissions generated by the ARCF 2016 Project within the YSAQMD jurisdiction will be offset within the District's boundary.

While NOX emissions may be offset within the YSAQMD boundary, they must also be offset within the Sacramento Federal Ozone Nonattainment Area (SFONA), where the project is occurring. While all of Yolo County is part of the SFONA, only part of Solano County is part of SFONA. Therefore, Appendix A should state that all emissions will be offset within the District's boundary and also within the SFONA. If your schedule does not allow the draft agreement to be revised prior to public notice, keep the current language in the draft conformity determination; however, this change should be incorporated into the final conformity determination.

The conformity also determination states, "a mitigation offset agreement will be maintained with YSAQMD to offset NOX emissions occurring within the YSAQMD boundary" (page 10). Presumably emissions within SMAQMD will also be mitigated within that District. This is acceptable to EPA, but not a requirement of the general conformity regulations. Emissions occurring within the nonattainment area may be offset with emission reductions anywhere within the nonattainment area. Appendix A implies as much by noting, "NOX emissions generated outside of the YSAQMD jurisdictional boundary may also be offset within the YSAQMD boundary with agreement from another local air quality agency with jurisdiction over the emissions and within the SFONA."

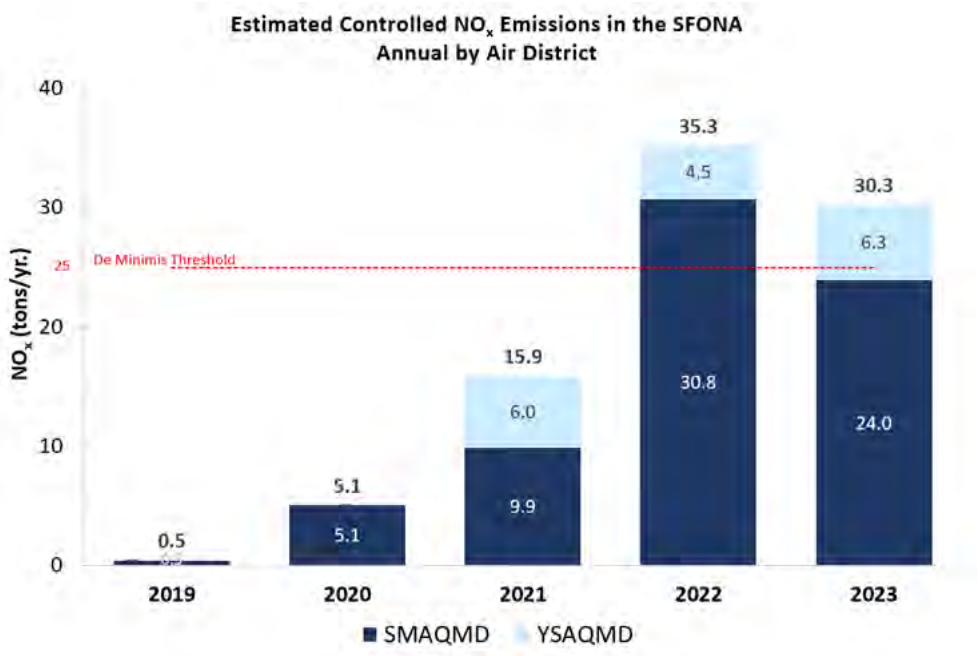
Please follow up with me if you have questions and thanks for the opportunity to review the determination prior to its release to the public.

Tom Kelly | U.S. EPA Region IX | Air Planning Office (AIR-2) | 75 Hawthorne Street, San Francisco, CA 94105 | (415) 972-3856

From: [redacted]
Sent: Thursday, March 19, 2020 3:27 PM
To: Kelly, ThomasP <Kelly.ThomasP@epa.gov>
Cc: [redacted]usace.army.mil>
Subject: Pre-public release: Draft General Conformity Determination -- ARCF 2016

Good Afternoon Mr. Kelly,

Thank you for answering my questions this afternoon about NOx offsets and GC Determination timing. Please find the attached pre-public release Draft GC Determination for the ARCF 2016 Project by the USACE Sacramento District, which we discussed. Appendix C includes the relevant emissions estimates referenced in the document and shown in this graphic below. I'm omitting the lengthy technical Appendix B (detailed emissions modelling). I appreciate your feedback on the Draft GC Determination document.



At this point, the project aims to begin the public review comment period by the end of March. As I mentioned, our office and local business operations are affected by current County public health guidance. And my normal office email server is not accessible. Please reply all.
Thank you.

V/R,

[redacted]

[redacted]
Environmental Manager
USACE - Sacramento District
Planning Division, Environmental Analysis Section
[redacted]

Appendix F
Noise Modeling Data

Attenuation Calculations for Stationary Noise Sources

KEY: Orange cells are for input.
Grey cells are intermediate calculations performed by the model.
Green cells are data to present in a written analysis (output).

STEP 1: Identify the noise source and enter the reference noise level (dBA and distance).

STEP 2: Select the ground type (hard or soft), and enter the source and receiver heights.

STEP 3: Select the distance to the receiver.

Noise Source/ID	Reference Noise Level			Attenuation Characteristics				Attenuated Noise Level at Receptor		
	noise level (dBA)	@	distance (ft)	Ground Type (soft/hard)	Source Height (ft)	Receiver Height (ft)	Ground Factor	noise level (dBA)	@	distance (ft)
Rip Rap	88.0	@	50	soft	5	5	0.58	88.0	@	50
Rip Rap	88.0	@	50	soft	5	5	0.58	80.2	@	100
Rip Rap	88.0	@	50	soft	5	5	0.58	72.5	@	200
Rip Rap	88.0	@	50	soft	5	5	0.58	67.9	@	300
Rip Rap	88.0	@	50	soft	5	5	0.58	64.7	@	400
Rip Rap	88.0	@	50	soft	5	5	0.58	62.2	@	500
Rip Rap	88.0	@	50	soft	5	5	0.58	54.4	@	1000
Rip Rap	88.0	@	50	soft	5	5	0.58	49.9	@	1500
Rip Rap	88.0	@	50	soft	5	5	0.58	46.6	@	2000
Rip Rap	88.0	@	50	soft	5	5	0.58	42.1	@	3000

Notes:
Estimates of attenuated noise levels do not account for reductions from intervening barriers, including walls, trees, vegetation, or structures of any type.

Computation of the attenuated noise level is based on the equation presented on pg. 176 and 177 of FTA 2018.

Computation of the ground factor is based on the equation presentd in Table 4-26 on pg. 86 of FTA 2018, where the distance of the reference noise leve can be adjusted and the usage factor is not applied (i.e., the usage factor is equal to 1).

Sources:

Federal Transit Association (FTA). 2018 (September). Transit Noise and Vibration Impact Assessment. Washington, D.C. Available: <http://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf>Accessed: March 5, 2020.

Distance Propagation Calculations for Stationary Sources and Truck Hauling Ground Vibration

KEY: Orange cells are for input.

Grey cells are intermediate calculations performed by the model.

Green cells are data to present in a written analysis (output).

STEP 1: Determine units in which to perform calculation.

— If vibration decibels (VdB), then use Table A and proceed to Steps 2A and 3A.

— If peak particle velocity (PPV), then use Table B and proceed to Steps 2B and 3B.

STEP 2A: Identify the vibration source and enter the reference vibration level (VdB) and distance.

STEP 3A: Select the distance to the receiver.

Table A. Propagation of vibration decibels (VdB) with distance

Noise Source/ID	Reference Noise Level			Attenuated Noise Level at Receptor		
	vibration level (VdB)	@	distance (ft)	vibration level (VdB)	@	distance (ft)
Haul Truck	86	@	25	83.6	@	30
Vibratory Compactor	94	@	25	79.7	@	75
Haul Truck	86.0	@	25	71.7	@	75

The Lv metric (VdB) is used to assess the likelihood for vibration to result in human annoyance.

STEP 2B: Identify the vibration source and enter the reference peak particle velocity (PPV) and distance.

STEP 3B: Select the distance to the receiver.

Table B. Propagation of peak particle velocity (PPV) with distance

Noise Source/ID	Reference Noise Level			Attenuated Noise Level at Receptor		
	vibration level (PPV)	@	distance (ft)	vibration level (PPV)	@	distance (ft)
Haul Truck	0.076	@	25	0.058	@	30
Vibratory Compactor	0.210	@	25	0.198	@	26

The PPV metric (in/sec) is used for assessing the likelihood for the potential of structural damage.

Notes:

Computation of propagated vibration levels is based on the equations presented on pg. 185 of FTA 2018. Estimates of attenuated vibration levels do not account for reductions from intervening underground barriers or other underground structures of any type, or changes in soil type.

Federal Transit Association (FTA). 2018 (September). Transit Noise and Vibration Impact Assessment Manual. FTA Report No. 0123. Washington, D.C. Accessed: December 20, 2020. Page Available:

https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf

Traffic Noise Spreadsheet Calculator
Existing Conditions

Project: ARCF Site 1-1

Noise Level Descriptor: CNEL
Site Conditions: Hard
Traffic Input: ADT
Traffic K-Factor:

				Input										Output				
	Segment Description and Location					Distance to Directional Centerline, (feet)[4]		Traffic Distribution Characteristics						CNEL,	Distance to Contour, (feet)[3]			
Number	Name	From	To	ADT	Speed (mph)	Near	Far	% Auto	% Medium	% Heavy	% Day	% Eve	% Night	(dBA)[5,6,7]	70 dBA	65 dBA	60 dBA	55 dBA
1	SR 50	Howe St (Sacramento State College)		189,500	65	100	100	85.0%	10.0%	5.0%	85.0%	10.0%	5.0%	83.6	2294	7255	22943	72551
2	SR 51 (Business 80)	E Street		169,000	65	100	100	85.0%	10.0%	5.0%	85.0%	10.0%	5.0%	83.1	2046	6470	20461	64703

Traffic Noise Spreadsheet Calculator

Existing Plus Project Conditions

Project: ARCF Site 1-1

Noise Level Descriptor: Leq
Site Conditions: Soft
Traffic Input: Peak
Traffic K-Factor:

Segment Description and Location				Input										Output							
Number	Name	From	To	Peak Hour Volume	Speed (mph)	Distance to Directional Centerline, (feet)$_4$ Near	Far	Traffic Distribution Characteristics % Auto	% Medium	% Heavy	% Day	% Eve	% Night	Leq, (dBA)$_{5,6,7}$	Distance to Contour, (feet)$_3$ 70 dBA	65 dBA	60 dBA	55 dBA
Hauling																					
1	Generic	Haul truck activity		24	40	95	105	0.0%	0.0%	100.0%	100.0%	0.0%	0.0%	56.6	13	27	59	127

Citation #	Citations	
1	Caltrans Technical Noise Supplement. 2009 (November). Table (5-11), Pg 5-60.	Caltrans Technical Noise Supplement. 2013 (September). Table (4-2), Pg 4-17.
2	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-26), Pg 5-60.	Caltrans Technical Noise Supplement. 2013 (September). Equation (4-5), Pg 4-17.
3	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-16), Pg 2-32.	FHWA 2004 TNM Version 2.5
4	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-11), Pg 5-47, 48.	FHWA 2004 TNM Version 2.5
5	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-26), Pg 2-55, 56.	Caltrans Technical Noise Supplement. 2013 (September). Equation (2-23), Pg 2-51, 52.
6	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-27), Pg 2-57.	Caltrans Technical Noise Supplement. 2013 (September). Equation (2-24), Pg 2-53.
7	Caltrans Technical Noise Supplement. 2009 (November). Pg 2-53.	Caltrans Technical Noise Supplement. 2013 (September). Pg 2-57.
8	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-7), Pg 5-45.	FHWA 2004 TNM Version 2.5
9	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-8), Pg 5-45.	FHWA 2004 TNM Version 2.5
10	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-9), Pg 5-45.	FHWA 2004 TNM Version 2.5
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12	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-14), Pg 5-49.	FHWA 2004 TNM Version 2.5
13	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (16), Pg 67	
14	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (20), Pg 69	
15	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (18), Pg 69	

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California Department of Transportation (Caltrans). 2017. 2017 Traffic Volumes : Route 51-59. https://dot.ca.gov/programs/traffic-operations/census/traffic-volumes/2017/route-51-59

California Department of Transportation (Caltrans). 2017. 2017 Traffic Volumes : Route 51-59. https://dot.ca.gov/programs/traffic-operations/census/traffic-volumes/2017/route-44-50

Draft

AMERICAN RIVER WATERSHED COMMON FEATURES, AMERICAN RIVER CONTRACT 3A
Supplemental Environmental Assessment
April 2022

US Army Corps of Engineers
Sacramento District
1325 J Street
Sacramento, CA 95814

[*Photo Courtesy of Bailey Hunter]*

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Abbreviations and Acronyms

ACHP	Advisory Council on Historic Preservation
APE	Area of Potential Effects
ARCF	American River Watershed Common Features
ARCF GRR	American River Common Features General Re-evaluation Report
ARCF GRR FEIS/FEIR	ARCF General Reevaluation Report Environmental Impact Statement/Environmental Impact Report
BO	Biological Opinion
BMPs	Best Management Practices
CAA	Clean Air Act
CARB	California Air Resources Board
CDFW	California Department of Fish and Wildlife
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CVFPB	Central Valley Flood Protection Board
CVRWQCB	Central Valley Regional Water Quality Control Board
CWA	Clean Water Act
cy	Cubic Yards
dBA	A-weighted Decibel
DEIR	Draft Environmental Impact Statement
DWR	California Department of Water Resources
EFH	Essential Fish Habitat
EPA	U.S Environmental Protection Agency
ESA	Endangered Species Act
FONSI	Finding of No Significant Impact
Ford Engineers	David Ford Consulting Engineers
EO	Executive Order
EOE	Expert Opinion Elicitation
GHG	Greenhouse Gas
GRR	American River Common Features General Re-evaluation Report
HDR	HDR incorporated
HPMP	Historic Properties Management Plan
HPTP	Historic Properties Treatment Plan
LAR	Lower American River
L_{eq}	Equivalent Continuous Level
MBTA	Migratory Bird Treaty Act
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act

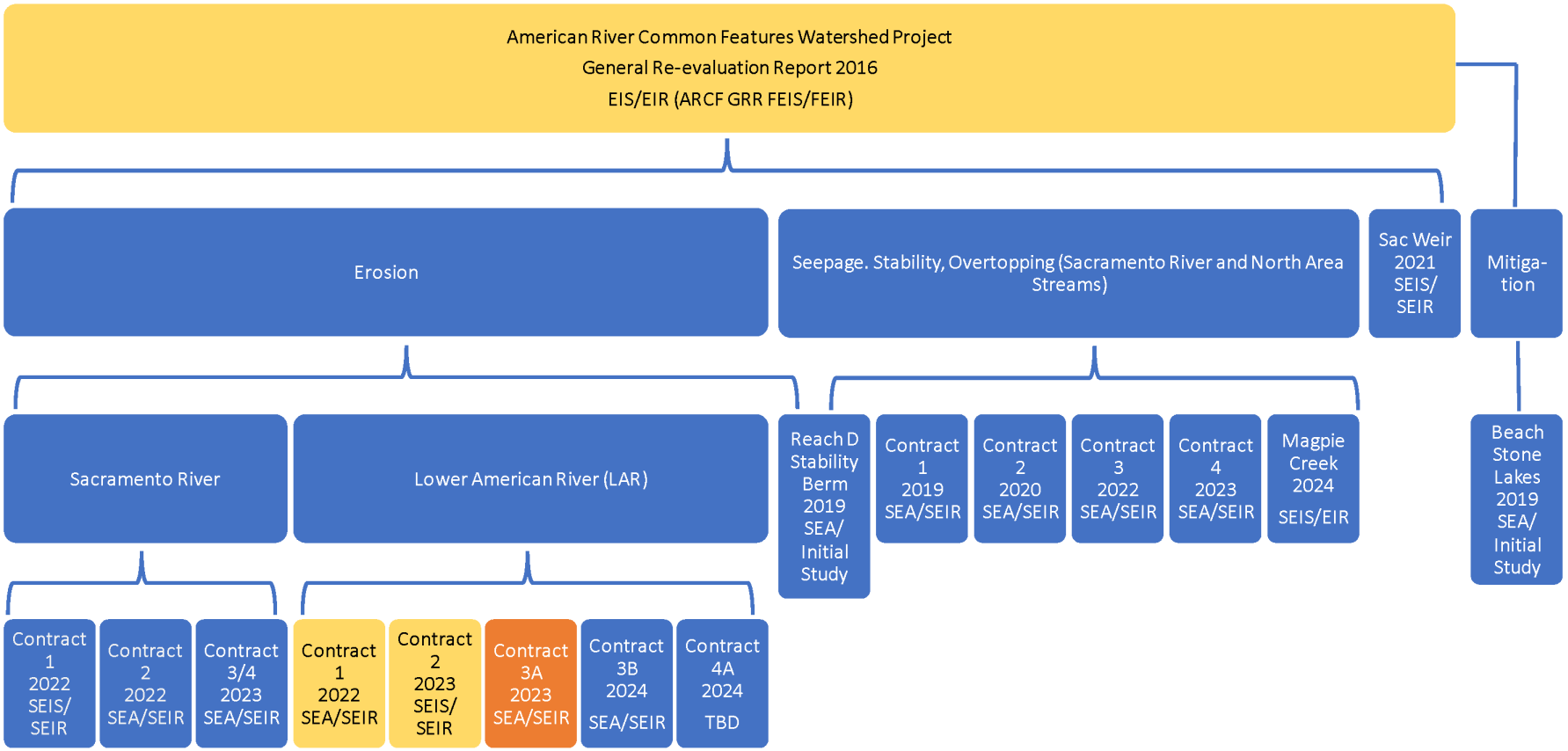
NMFS	National Oceanic and Atmospheric Administration National Marine Fisheries Service
NRHP	National Register of Historic Places
OHWM	Ordinary High Water Mark
PA	Programmatic Agreement
PED	Pre-construction, Engineering and Design
PPV	Peak Particle Velocity
ROD	Record of Decision
RM	River Mile
SAFCA	Sacramento Area Flood Control Agency
SEA	Supplemental Environmental Assessment
SEIR	Supplemental Environmental Impact Report
SEA/SEIR	Supplemental Environmental Assessment/Environmental Impact Report
SEIS/SEIR	Supplemental Environmental Impact Statement/Environmental Impact Report
SHPO	State Historic Preservation Officer
SMAQMD	Sacramento Metropolitan Air Quality Management District
SRA	Shaded Riverine Aquatic
TRAC	Technical and Resource Advisory Committee
TAC	Technical Advisory Committee
URA	Uniform Relocation Assistance
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
VELB	Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*)
VdB	vibration decibels
WIIN Act	Water Infrastructure Improvements for the Nation Act
WRDA	Water Resources Development Act
Cuckoo	Western Yellow-billed Cuckoo (*Coccyzus americanus*)

Chapter 1 Introduction

1.1 Summary

The Sacramento metropolitan area is one of the most at-risk regions for flooding in the United States. To reduce this risk, Congress first authorized the American River Watershed Common Features (ARCF) Project in the Water Resources Development Act (WRDA) of 1996. The project was conceived to provide a portfolio of flood risk reduction measures to address levee seepage and instability along the Lower American River and the Sacramento River north of its confluence with the American River (west of the Natomas basin and near the City of Sacramento, California). Storms in early 1997 stressed the flood risk management system and revealed significant additional problems with the system. The U.S. Army Corps of Engineers (USACE) completed a reevaluation, the ARCF General Reevaluation Report Environmental Impact Statement/Environmental Impact Report (ARCF GRR FEIS/FEIR) in May 2016. The ARCF GRR FEIS/FEIR evaluated alternative plans for additional flood risk reduction and recommended additional improvements to the system. The American River Common Features General Re-evaluation Report (ARCF GRR) determined that seepage, stability and overtopping protection measures were needed along the Sacramento River, the east bank of the Natomas East Main Drainage Canal, and Arcade Creek. Also, it determined that overtopping protection measures were needed along the Magpie Creek Diversion Channel and erosion protection measures were needed along the American River and Sacramento River. These improvements are collectively referred to as the ARCF 2016 Project. Congress authorized these additional improvements in the WRDA of 2016 (Public Law 114-322). The specific contracts associated with the ARCF 2016 Project and their relationship to the ARCF GRR FEIS/FEIR are outlined in Figure 1- 1.

The ARCF GRR covers 11 miles of erosion protection work along Lower American River (LAR) (USACE 2016). As discussed in the 2019 Lower American River Subreach 1, 3, and 4 Tier Classification Memo that was put together by HDR Incorporated (HDR) and David Ford Consulting Engineers (Ford Engineers), an expert opinion elicitation (EOE) was held to gather estimates from experts on probabilities of levee failure due to erosion on the LAR. The EOE included members of the TAC (Technical Advisory Committee) as well as experts from USACE and the California Department of Water Resources (DWR) (HDR and Ford Engineers 2019). The findings of the EOE (HDR and Ford Engineers 2019) and the results of additional investigative work performed by the USACE engineering risk cadre have led the project team to refine the footprint of the Lower American river erosion protection sites at multiple locations along the LAR from the footprint estimated in the ARCF GRR FEIS/FEIR. These differences triggers the need for supplemental environmental analyses.



Blue is the whole project.

Yellow are related documents.

Orange is this document.

There are 5 anticipated contracts on the LAR (seen in Figure 1- 1) which need supplemental analyses. These LAR erosion sites cover approximately 7 miles of LAR levees. The first two LAR erosion contracts, LAR Contract 1 and Contract 2, are planned to begin with vegetation clearing and levee reconstruction work in February 2022. It is anticipated that erosion protection work for these projects will conclude by the end of 2023. LAR Contract 1 and LAR Contract 2 will take place immediately downstream of the H Street Bridge, with Contract 1 improvements on the left bank and Contract 2 improvements on the right bank. In March 2021 an analysis was finalized for LAR Contract 1 in a Final Supplemental Environmental Assessment/Environmental Impact Report (LAR Contract 1 SEA/SEIR) and in September 2021 an analysis for LAR Contract 2 was finalized in a Final Supplemental Environmental Impact Statement/Environmental Impact Report (LAR Contract 2 SEIS/SEIR). Information presented in the ARCF GRR FEIS/FEIR, the LAR Contract 1 SEA/SEIR and the LAR Contract 2 SEIS/SEIR is incorporated by reference. Future projects include LAR Contract 3B and LAR Contract 4A. It is anticipated that in 2024 erosion work will be done along the LAR between Howe Ave and the Mayhew drain under LAR Contract 3B. Finally, erosion protection is anticipated to be added to LAR Contract 4A in 2024 and would include work on the LAR right bank under the State Highway 160 bridge.

The contract being reviewed in this SEA is LAR Contract 3A, which is on the left bank of the LAR near the Business I-80 Bridge. For the final designs of the LAR Contract 3A site(Figure 1- 3, Figure 1- 4 and Figure 1- 5), only 700 feet of the levee reach proposed for erosion protection improvements was analyzed in the ARCF GRR FEIS/FEIR (Figure 1- 2). The 2300 feet of erosion protection upstream of the Business I-80 Bridge (Figure 1- 4) was determined to be needed during detailed design phase of the project.

In addition, the ARCF GRR FEIS/FEIR analyzed launchable trench and bank protection (Figure 1- 6) as erosion protection options. Along with bank protection, in order to meet the intent of the authorized project, the updated designs now also include launchable toe protection (Figure 1- 7) instead of launchable trench. The specific design refinements for LAR Contract 3A also include: 1) locating staging areas northwest of the Business I-80 Bridge, and at parking lots at Sutter’s Landing Park and 2) using haul routes to and from the Project Area (Figure 1- 8). These project refinements are henceforth referred to as the Proposed Action. An environmental review indicates that the Proposed Action would result in some changes to the magnitude of effects on visual resources, vegetation and wildlife, fisheries, special status species, cultural resources, air quality, transportation, climate change, recreation, hydrology, water quality, noise, and public utilities.

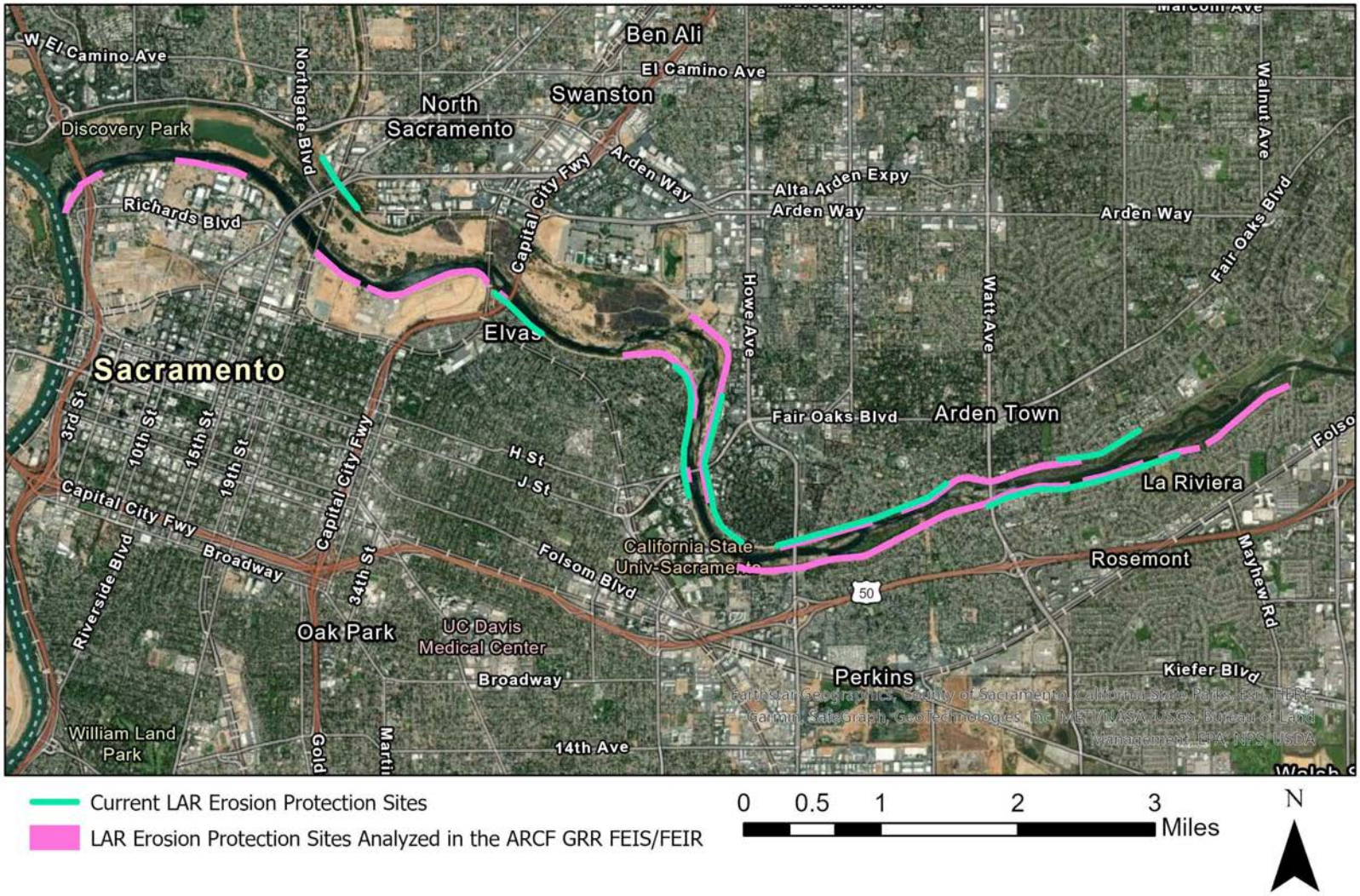


Figure 1- 2 Erosion Protection Sites Analyzed in the ARCF GRR FEIS/FEIR Compared to Current Project Locations

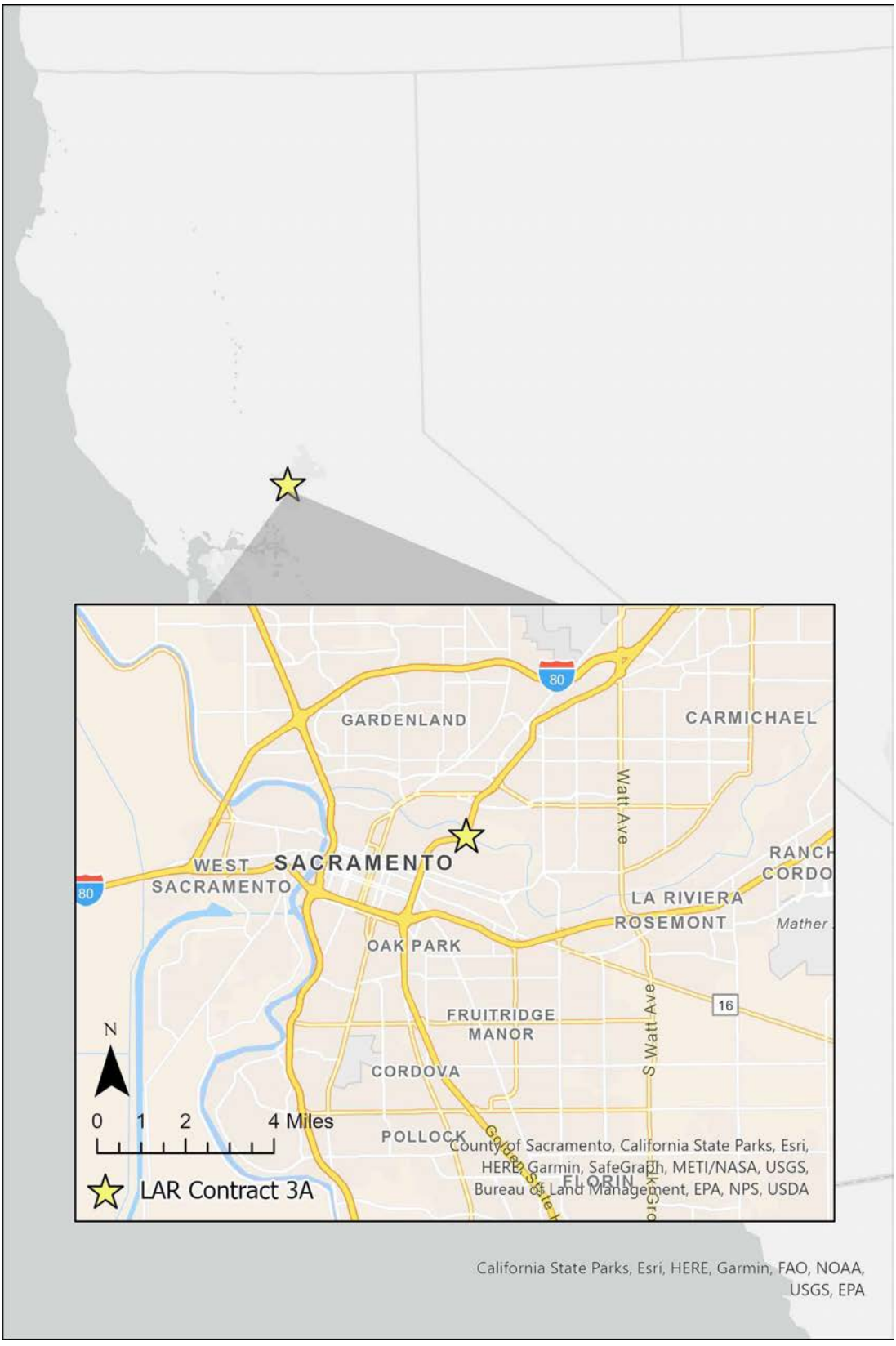


Figure 1- 3 Location of Proposed Work for LAR Contract 3A

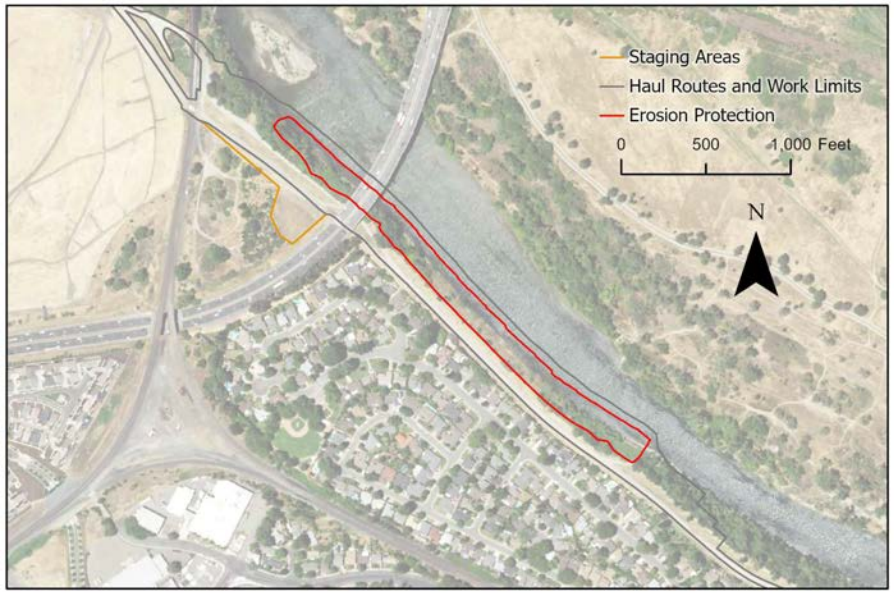
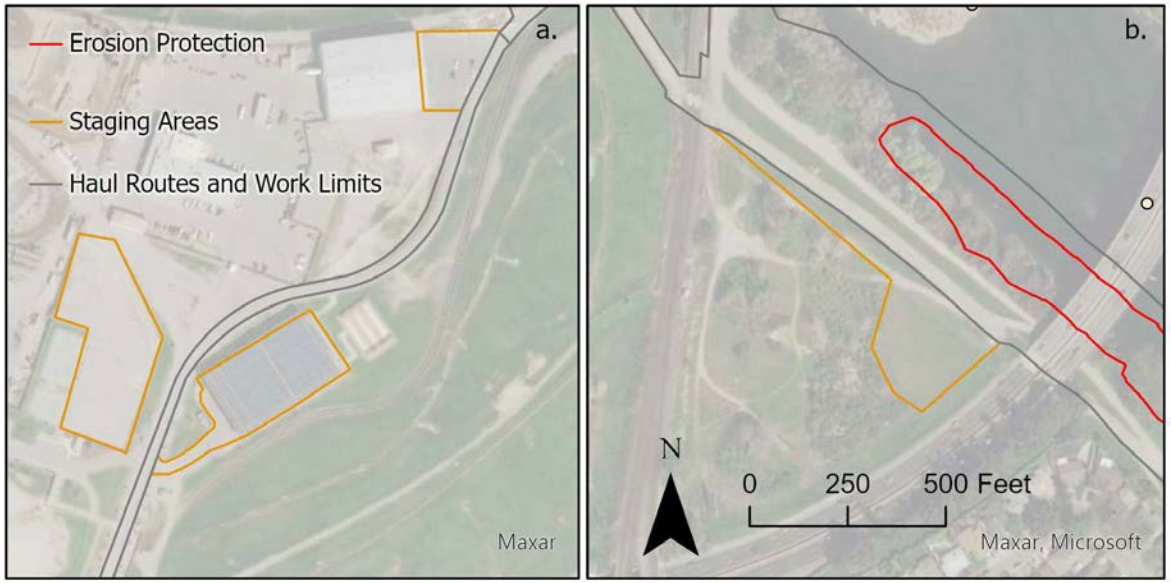


Figure 1- 4 Bank Protection and Launchable toe Footprint



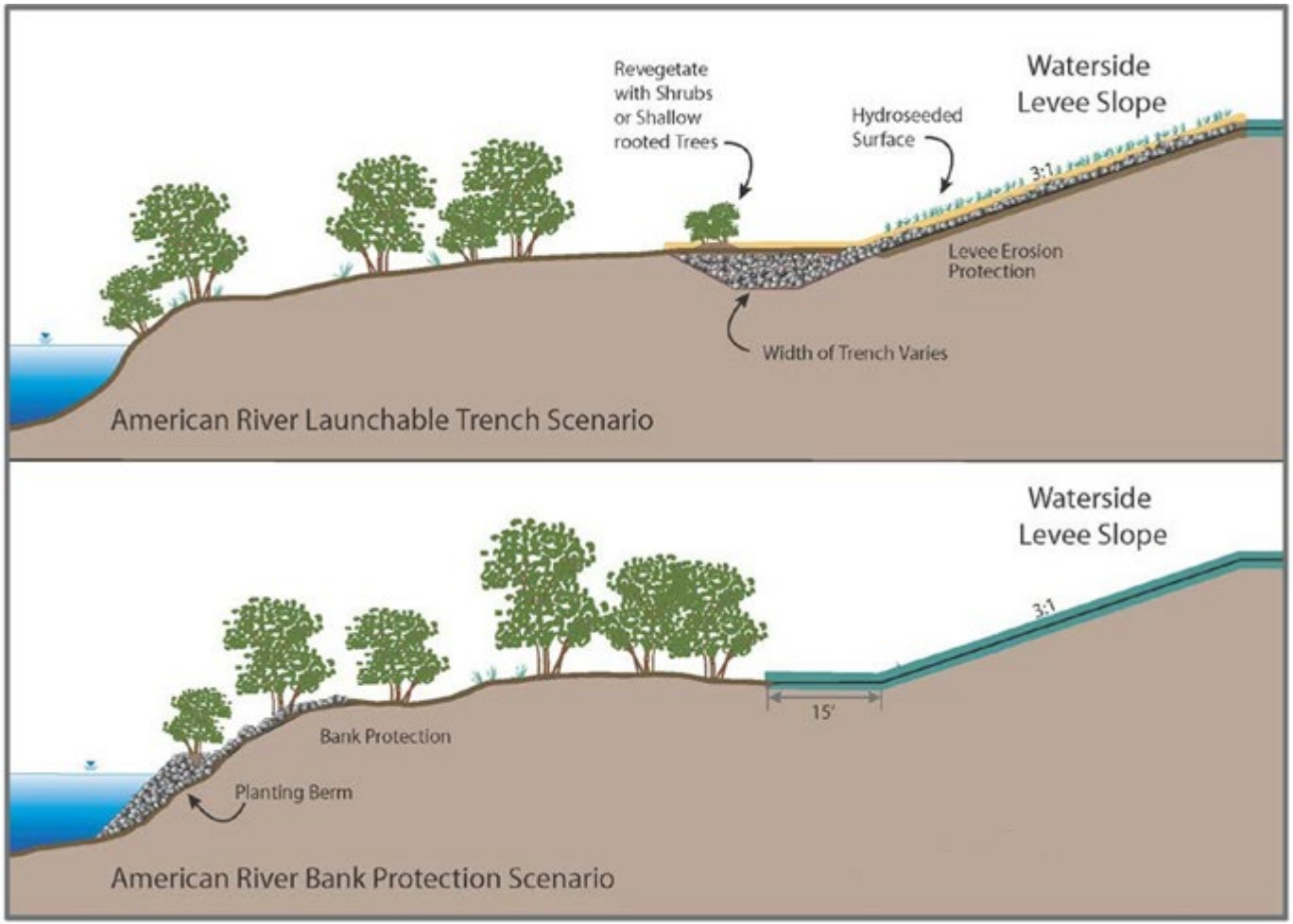


Figure 1- 6 Bank Protection and Launchable Rock Trench Typical Design

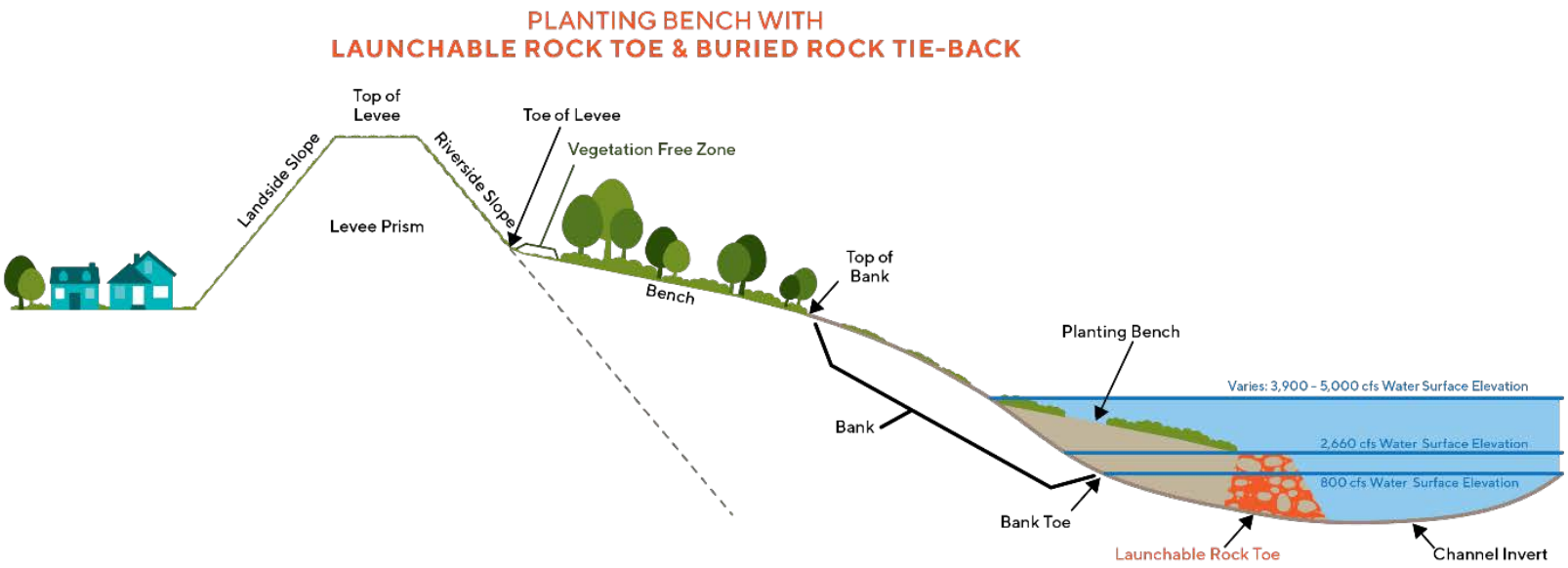


Figure 1- 7 Planting Bench with Launchable Rock Toe and Buried Rock Tie-Back

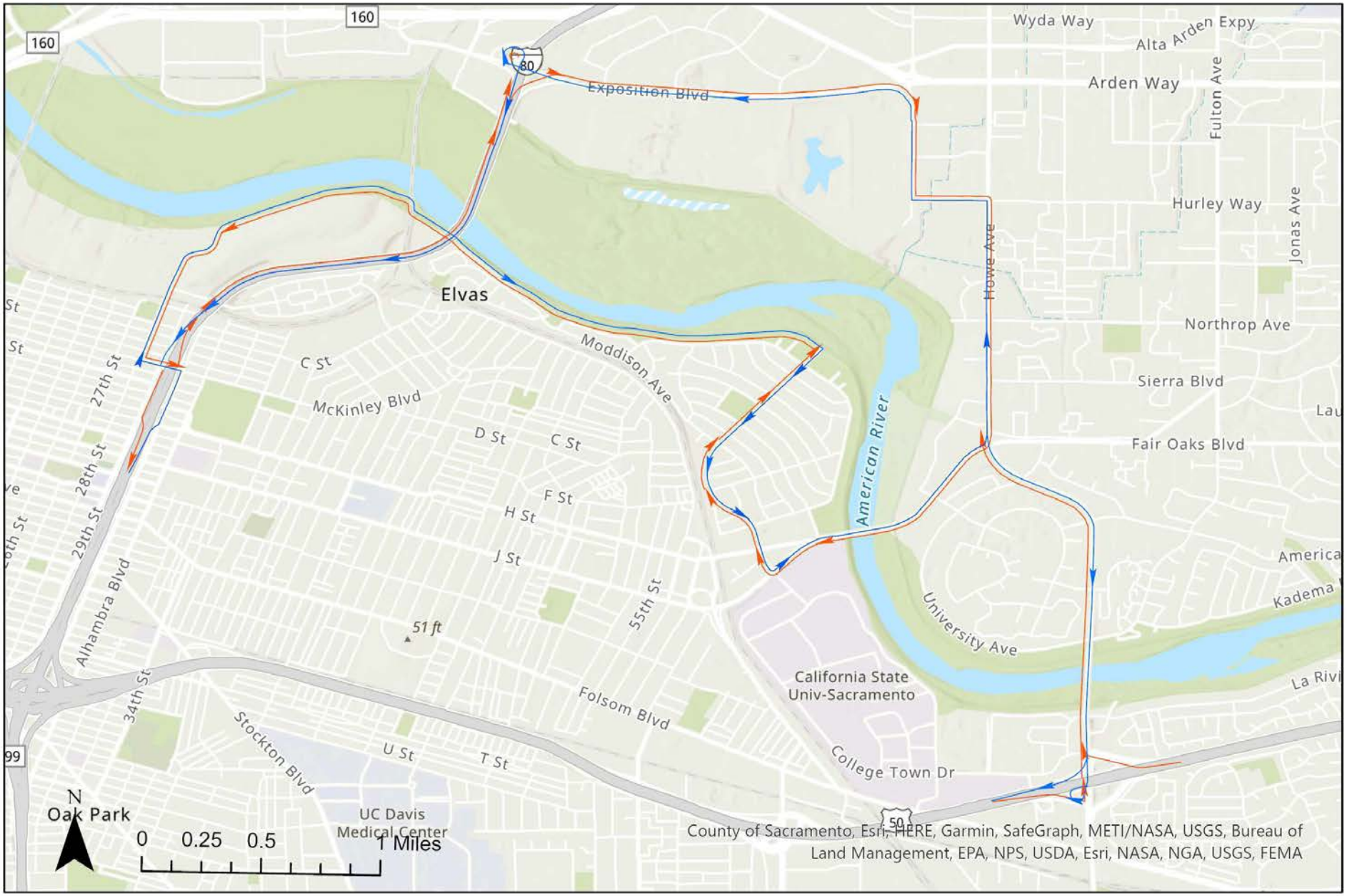


Figure 1- 8 Proposed Action Haul Route Options

1.2 Project Purpose

The purpose of the Proposed Action is to reduce the overall flood risk associated with erosion on the left bank of LAR near the Business I-80 Bridge. In conjunction with other ARCF erosion protection sub-projects along the LAR, the Proposed Action would help to reduce flood risk for the metropolitan area. Both the Sacramento and American Rivers have large watersheds producing high runoff volumes and high-risk potential for damaging flood conditions.

1.3 Project Area

The project is in the City of Sacramento and in Sacramento County, California along the left bank of the Lower American River (Figure 1- 2) on both sides and under the Business I-80 Bridge between River Mile (RM) 3.8 to RM 4.2. Staging areas are northwest of the Business 1-80 Bridge and at parking lots at Sutter's Landing Park.

1.4 Authority

LAR Contract 3A would address erosion risks to the LAR identified in the ARCF GRR, which was authorized by WRDA 2016, Pub. L. No. 114-322 § 1322, also known as the Water Infrastructure Improvements for the Nation Act (WIIN Act). The project was fully funded through the Bipartisan Budget Act of 2018 (Public Law 115-123).

1.5 Proposed Action

The Proposed Action includes using launchable rock toe as the erosion protection method, the location of improvements along the LAR in the LAR Contract 3A Project Area, staging areas not specified in the ARCF GRR FEIS/FEIR and haul routes not specified in the ARCF GRR FEIS/FEIR. Figure 1- 4, Figure 1- 5, and Figure 1- 8 show what is hereafter referred to as the Project Area. The ARCF GRR FEIS/FEIR analyzed the basic erosion protection measures and generally some staging areas and haul routes. Because of the generic scope of the ARCF GRR FEIS/FEIR, specific project footprints, staging areas and haul routes were not developed. This SEA bridges that gap by analyzing the additional or different environmental impacts anticipated from the increment of change between the ARCF GRR FEIS/FEIR and the project's recently completed 65% level designs. These changes constitute the Proposed Action.

1.6 Background and Need for Action

The ARCF GRR FEIS/FEIR analyzed most environmental impacts for the various elements comprising the overall ARCF 2016 Project. The purpose of this SEA is to analyze impacts that were not assessed in the ARCF GRR FEIS/FEIR associated with erosion protection upstream of the Business I-80 Bridge, the type of erosion protection, staging areas, and haul routes. The ARCF GRR FEIS/FEIR thoroughly explains the background of the ARCF 2016 Project in Section 1.3. The erosion protection locations shown in Plate 4 of the ARCF GRR FEIS/FEIR (also in Figure 1- 2 of this SEA) were selected because those locations did not have erosion protection features. The assumption was that the areas that had not been protected in the past had the highest risk of levee failure due to a lack of erosion protection features. The ARCF GRR left

it up to the designers to select final locations once more precise erosion information was available for analysis. The ARCF 2016 Projects along the American River can cover up to 11 miles within the ARCF GRR's authorized reaches.

In 2019 an EOE, made up of members of the TRAC as well as experts from USACE and DWR, estimated the probabilities of levee failure on the LAR due to erosion (HDR and Ford Engineers 2019). Using these probabilities and additional data, the USACE engineering risk cadre further refined the sites of erosion protection and the footprints along the LAR. Based on these refinements, some of the erosion protection footprints that were analyzed in the ARCF GRR FEIS/FEIR no longer met the flood protection objectives of the ARCF GRR.

For LAR Contract 3A, the area downstream of the Business I-80 Bridge was included and the area upstream of the Business I-80 Bridge was not included (Figure 1- 2). This SEA will analyze any site specific special environmental conditions for the added erosion protection footprint that were not analyzed in the ARCF GRR FEIS/FEIR for this specific action. Since the site is similarly situated, is ecologically similar and does not incrementally change the ARCF GRR authorized footprint, most of the analysis contained in the ARCF GRR FEIS/FEIR applies to LAR Contract 3A.

In addition, the ARCF GRR FEIS/FEIR analyzed launchable trench rock as the method of launchable rock erosion protection, while the 65% designs for LAR Contract 3A include a launchable rock toe approach. A launchable rock toe is placed at the waterside edge of a constructed planting bench, lower on the levee/riverbank than a launchable rock trench, to allow riparian vegetation to grow next to the water's edge. If erosion and scour occur below the launchable toe, the revetment placed in the launchable toe would launch and cover the eroded area, preventing further erosion and providing bank slope stability. The launchable rock trench analyzed in the ARCF GRR FEIS/FEIR is placed higher up the levee in the river overbank (a bench higher up on the levee slope) and rock would only launch if lateral erosion progressed during a large flood event to the overbank erosion feature. The launchable rock trench feature was found to be unsuitable at the LAR Contract 3A site.

In addition, the ARCF GRR FEIS/FEIR analyzed possible staging areas in the American River Parkway, but the staging areas ultimately chosen for the Contract 3A work are mostly located outside the American River Parkway, and therefore require analysis in this SEA. Similarly, the specific haul route selected to access Contract 3A sites has not been analyzed in any previous LAR environmental document, and therefore will be assessed in this SEA.

1.7 Project Need

The Proposed Action is needed to construct erosion protection measures at the LAR Contract 3A site in a cost-effective manner that minimizes the impact to environmental resources. LAR Contract 3A (RM 3.8 to RM 4.2) was identified as one of the levee reaches that requires remedial action immediately in order to safely convey the river's 160,000 cfs design flow (HDR and Ford Engineers 2019) while protecting levee integrity. Construction of the Contract 3A erosion protection measures would reduce the potential risk of levee failure from bank instability, reduce the potential risk of levee failure from bank erosion, and reduce the risk of catastrophic flooding of the City of Sacramento.

Additional information collected and modeled after completion of the ARCF GRR FEIS/FEIR showed that the footprint for the area should be extended upstream of the Business I-80 Bridge. Since no specific project haul route was analyzed in the ARCF GRR FEIS/FEIR and the route now identified for LAR Contract 3A is different than the LAR Contract 1 or 2 haul routes, the haul route for LAR Contract 3A must be analyzed as well. Also, the staging areas outside of the American River Parkway were chosen to limit the project's impact on Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*) (VELB) habitat and the Western Yellow-billed Cuckoo (*Coccyzus americanus*) (cuckoo) stopover habitat.

1.8 Related Documents

The Proposed Action is a component of a larger effort in the Sacramento region. USACE and the Central Valley Flood Protection Board (CVFPB) jointly published the Draft ARCF GRR EIS/EIR in March 2015, in accordance with the requirements of the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) (SCH No. 2005072046). Section 1.6 explains more about what was analyzed in the Draft ARCF GRR EIS/EIR. A Final EIS/EIR was issued in January 2016, and comments were received between January 22 and February 22, 2016. A revised ARCF GRR FEIS/FEIR was issued in May 2016. The Record of Decision (ROD) for the ARCF GRR FEIS/FEIR was signed by the Assistant Secretary of the Army (Civil Works) on August 29, 2016. The ARCF GRR was authorized by Congress in December 2016. This Environmental Assessment supplements the ARCF GRR FEIS/FEIR. In addition to this SEA and in accordance with CEQA, the CVFPB and Sacramento Area Flood Control Agency (SAFCA) are supplementing the ARCF GRR FEIS/FEIR with a Supplemental Environmental Impact Report (SEIR) for LAR Contract 3A.

Documents which relate to the environmental review contained in this SEA include:

- December 2015 (revised May 2016), American River Watershed Common Features General Reevaluation Report, Final Environmental Impact Statement/Environmental Impact Report (ARCF GRR FEIS/FEIR);
- March 2021. American River Watershed Common Features, Water Resource Development Act of 2016, American River Contract 1. Final Supplemental Environmental Assessment/ Supplemental Environmental Impact Report. (LAR Contract 1 SEA/SEIR);
- March 2021, Reinitiation of Formal Consultation on the American River Common Features 2016 Project, Sacramento and Yolo Counties, California Biological Opinion (NMFS BO);
- May 2021, Endangered Species Act Section 7(a)(2) Biological Opinion, Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the American River Watershed Common Features General Reevaluation Report Reinitiation 2020 Biological Opinion (USFWS BO);
- June 2021, Final General Conformity Report for ARCF, Water Resources Development Act of 2016;

- September 2021. American River Watershed Common Features, Water Resource Development Act of 2016, American River Contract 2. Final Supplemental Environmental Impact Statement/ Supplemental Environmental Impact Report. (LAR Contract 2 SEIS/SEIR);

- and April 2022. American River Watershed Common Features, American River Contract 3A. Draft Supplemental Environmental Impact Report. (LAR Contract 3A SEIR).

1.9 Purpose of the Supplemental Environmental Assessment

Council on Environmental Quality (CEQ) Regulations for Implementing the Procedural Provisions of NEPA (40 CFR 1500-1508) and USACE's Procedures for Implementing NEPA (ER 200-2-2) specify that supplemental NEPA analyses are required if: (i) [USACE] makes substantial changes in the Proposed Action that are relevant to environmental concerns; or (ii) there are significant new circumstances or information relevant to environmental concerns and bearing on the Proposed Action or its impacts.

This SEA analyzes the anticipated environmental effects of levee reconstruction work specified in LAR Contract 3A that is outside the scope of project reconstruction work analyzed as Alternative 2 in the ARCF GRR FEIS/FEIR, and the Proposed Actions of the LAR Contract 1 SEA/SEIR and the LAR Contract 2 SEIS/SEIR. This document evaluates the anticipated environmental effects of the Proposed Action defined in Section 1.4, evaluates the anticipated environmental effects of the No Action Alternative, and identifies measures to avoid or reduce any adverse environmental effects of the Proposed Action to a less-than-significant level, where practicable. This SEA has been prepared in accordance with NEPA. This SEA fully discloses the reasonably foreseeable environmental effects of the Proposed Action to the public. A 45-day public review period will take place from April 13, 2022 to May 27, 2022 alongside the Draft Environmental Impact Statement (DEIR) prepared by the CVFPB and SAFCA. Public comments and responses to all comments received would be incorporated as part of the Final SEA in an appendix entitled 'Public Comments and Responses'. A virtual public meeting will be held during the comment period at a date and time to be announced on USACE's website for the ARCF 2016 Project at www.sacleveeupgrades.com. This meeting will be held jointly with project partners, CVFPB and SAFCA. CVFPB will also publish a notice in the Sacramento Bee announcing the availability of their DEIR and information about the public meeting.

Written comments regarding the Draft Supplemental SEA must be directed to the name and address below via postal mail or email by no later than 5:00 p.m. on May 27, 2022:

Public Affairs Officer
USACE Sacramento District
1325 J Street -- Room 1513
Sacramento, CA 95814
ARCF_LARC3A@usace.army.mil

The documents associated with LAR Contract 3A are available at www.sacleveeupgrades.com. This website also has the most up to date information on public meetings associated with LAR Contract 3A.

If comments are provided via email, please indicate “LAR Contract 3A Supplemental EA” in the subject line, attach comments in Microsoft Word format, and include the commenter’s name and mailing address. For comments by agencies and organizations, please include the name of a contact person for the agency or organization. All comments received, including names and addresses of commenters, will become part of the official administrative record and may be available to the public.

1.10 Decision Needed

The District Engineer, Commander of the Sacramento District, must decide whether the proposed levee improvements and related actions constituting the Proposed Action qualify for a Finding of No Significant Impact (FONSI) under NEPA, or whether a SEIS must be prepared.

Chapter 2 Alternatives

2.1 Introduction

Two alternatives are considered in this Supplemental Environmental Assessment for LAR Contract 3A: the No Action/No Project alternative and the Proposed Action.

2.2 No Action/No Project Alternative

NEPA requires the agency to consider at a minimum a No Action Alternative and an Action Alternative for environmental assessments. The No Action Alternative assumes that erosion improvements at the locations identified, will be completed as described and analyzed under Alternative 2 of the ARCF GRR FEIS/FEIR, the Preferred Alternative and the ROD signed August 2016. Alternative 2 of the ARCF GRR FEIS/FEIR included 11 miles of erosion improvements along the LAR in the locations selected in Plate 4 of the ARCF GRR FEIS/FEIR. Alternative 2 contemplated either launchable rock trenches or bank protection (Figure 1- 6), depending on the needs of each specific site. The ARCF GRR FEIS/FEIR generally analyzed anticipated environmental impacts from levee reconstruction work, impacts from staging areas, impacts from haul routes, impacts from borrow sites, and impacts from disposal sites. The completion of the LAR Contract 3A designs triggers a need to supplement the ARCF GRR FEIS/FEIR because finished designs now include specific haul routes and staging areas not analyzed in the ARCF GRR FEIS/FEIR and includes an erosion improvement footprint that is slightly different from the Project Area defined in the ARCF GRR FEIS/FEIR. Under the No Action Alternative levee improvements downstream of the Business I-80 Bridge are assumed to have been completed, using either bank protection or launchable rock. Also, the staging areas would only be in the American River Parkway. Vegetation would be removed outside of the nesting season.

The environmental baseline for analysis of the Proposed Action includes the completion of activities described in the LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR. Contract 1 and Contract 2 is scheduled to begin construction in 2022 and include installation of approximately 13,300 linear feet of erosion protection and on-site riparian habitat features along three LAR sites; creation of various habitat mitigation sites (Rossmoor West Mitigation Site, Rossmoor East Mitigation Site, Glenn Hall Park Mitigation Site, Rio Americano West Mitigation Site, Rio Americano East Mitigation Site); associated staging areas, stockpile sites, haul routes, and reconstruction of the Campus Commons Golf Course. These nearby sites will contribute to air pollution, increased traffic, greenhouse gases (GHG), shared levee access points, biological impacts, and hydraulic impacts.

2.3 Proposed Action

2.3.1 Features of the Proposed Action

2.3.1.1 Launchable Rock

After additional analyses by the EOE (HDR and Ford Engineers 2019) and the USACE engineering risk cadre, the USACE engineering risk cadre determined that the original proposed

locations of erosion protection along LAR for Contract 3A would not meet the objectives of the ARCF GRR. To ensure the LAR can safely convey 160,000 cfs, the levee reaches that will receive erosion protection improvements under Contract 3A have been slightly shifted along the LAR and an additional 2,300 linear feet of erosion protection has been added to the LAR Contract 3A project area. The ARCF GRR FEIS/FEIR only considered 700 feet of erosion protection work along the levee reach downstream of the Business I-80 Bridge. The originally proposed 11 miles of treatment along the LAR that was analyzed in the ARCF GRR FEIS/FEIR has not increased, just the locations of some treatment sites.

The Proposed Action is along the Business I-80 Bridge (Figure 1- 2). LAR Contract 3A levee work would be conducted on the left bank of the Lower American River between RM 3.8 and 4.3 (Figure 1- 4). Under LAR Contract 3A a total of 3,000 linear feet of both launchable rock toe and bank revetment would be constructed within the Project Area. Construction of the erosion protection is anticipated to occur in 2023. A combination of soil filled bank revetment on the levee and rock riverbank revetment would be added to the project sites. Some existing levee embankments would need to be regraded as well (Figure 2- 1). Materials excavated may be used onsite if the materials are clean. In addition, materials excavated from the nearby California Department of Transportation bridge deck expansion project may be used onsite if the materials are clean.

The erosion protection layout at the LAR Contract 3A site generally includes a peaked stone pile within the river that is supporting a planting bench between the stone pile and the existing bank. Planting bench tiebacks would be placed periodically throughout the project to limit the extent of erosion and subsequent damage to a planting bench during a flood event. Most of the site is designed to have soil filled revetment that would be placed on the bank further up the slope from the planting benches (Figure 2- 2). However, the site under the Business I-80 Bridge is designed to have a rock blanket (Figure 2- 3). This rock blanket will extend past the current Business I-80 Bridge footprint to account for the expanded bridge deck that will be built by the California Department of Transportation around the same time the Proposed Action is constructed. In addition, features have been added to the design to avoid utilities. A ditch with riprap would be installed below the Elvas Pump Station outfall. Revetment placement has been designed to be at grade above the Business I-80 runoff pipe. Launchable rock toe and a planting bench have been designed around the City of Sacramento force main head wall, while a rock apron would be installed at the force main outfall. The analysis done in the ARCF GRR FEIS/FEIR for erosion protection only considered two options, launchable trench and bank protection (Figure 1- 6). The erosion treatment footprint in the ARCF GRR FEIS/FEIR also only included the Section downstream of the Business I-80 Bridge (Figure 1- 2) This additional erosion treatment does not add to the overall 11 miles of erosion treatment that was analyzed for the LAR in the ARCF GRR FEIS/FEIR and authorized by WRDA 2016.

2.3.1.2 Staging

Staging for the LAR Contract 3A contractor’s vehicles, equipment and supplies would include an area northwest of the Business I-80 Bridge on the landside of the levee on the left bank of the LAR and three parking lots at Sutter’s Landing Park (Figure 1- 5). It is anticipated that the staging areas in Sutter’s Landing Park would be used for employee parking, equipment parking, and possibly a construction trailer and generator. It is also not anticipated that the area

of all three parking lots would be used at the same time. The staging area near the Business I-80 Bridge would also be used for stockpiling if necessary. If offsite stockpiling is necessary, a site within 15 miles of the project will be used. The stockpile would be located on a site or sites that are disturbed or previously cleared and/or used for stockpiling and completely void of any sensitive resources on or adjacent to the site(s).

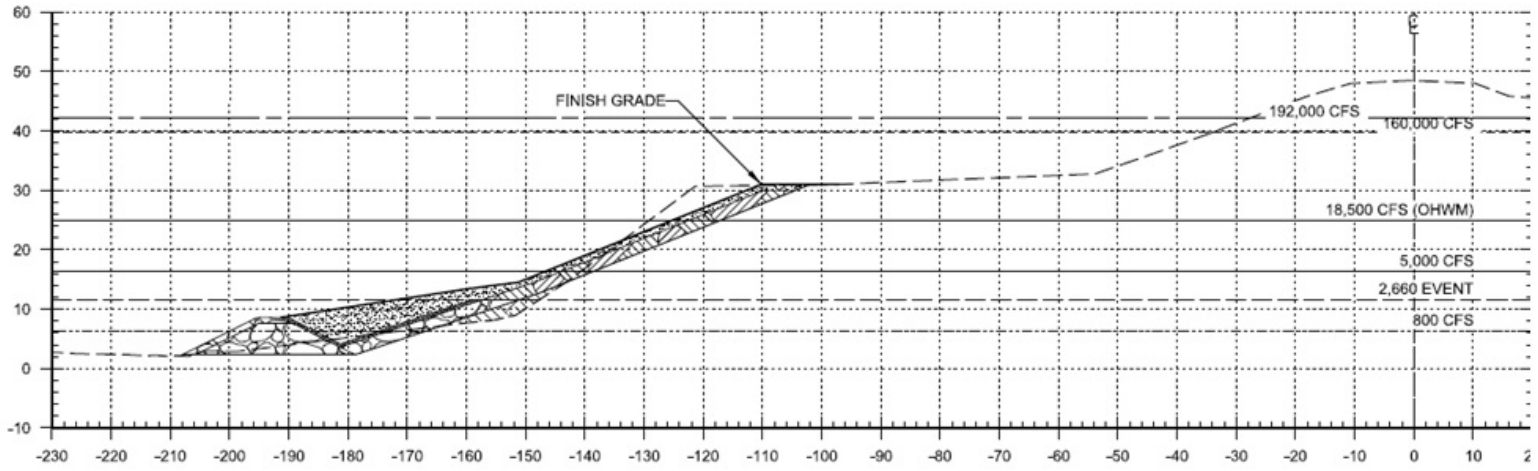


Figure 2- 1 Example of Launchable Toe and Bank Protection with Regrading.

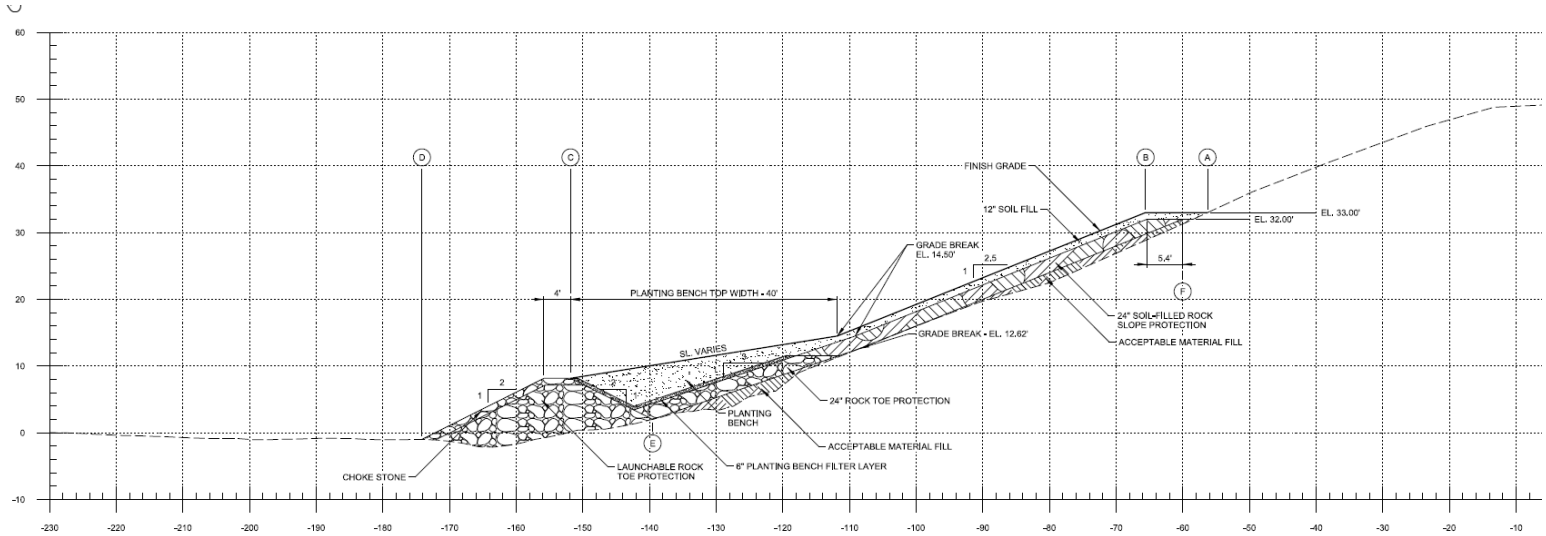


Figure 2- 2 Example of Launchable Toe and Soil Filled Rock

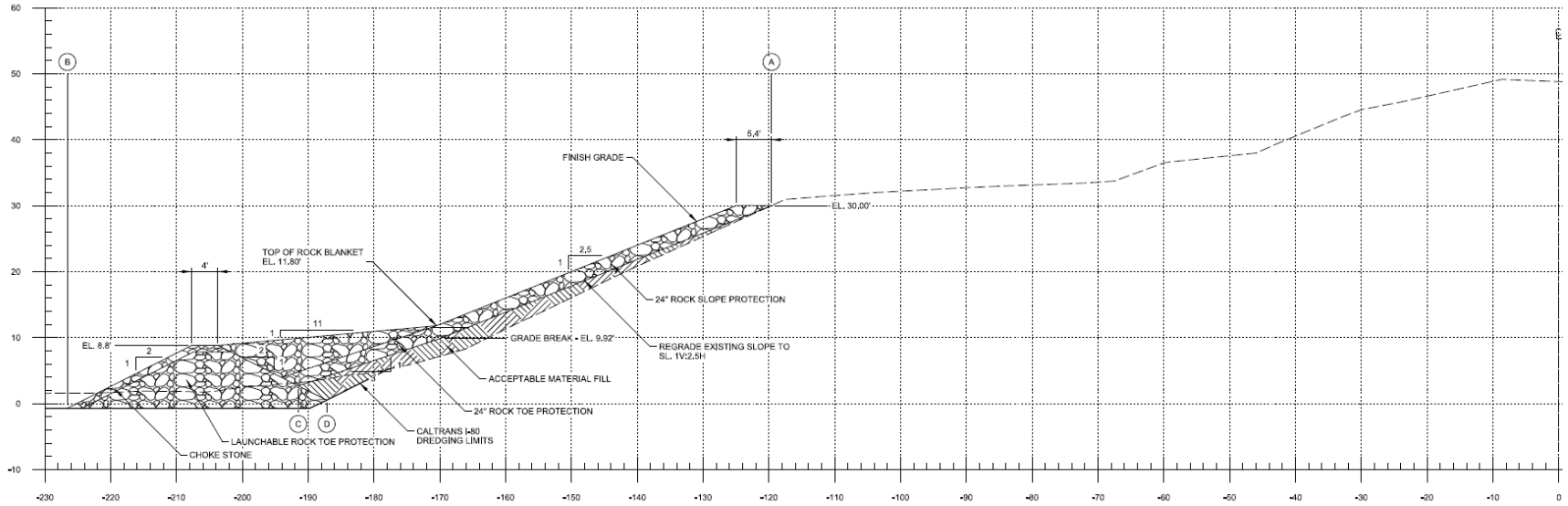


Figure 2- 3 Example of Launchable Toe, Rock Blanket and Bank Protection Under the Business I-80 Bridge

2.3.1.3 Haul Route

Access routes would include a one-way access starting from either Sutter's Landing Park going towards Glenn Hall Park on existing levee maintenance roads or starting from Glenn Hall Park going toward Sutter's Landing Park on existing levee maintenance roads. Trucks will either have to cross the Union Pacific Railroad track at grade or go under the railroad track further down the levee slope to access the construction area. Ramps would be built from levee maintenance roads down to the erosion protection sites. Haul trucks and other construction vehicles would utilize surface streets and freeways after leaving the levees (Figure 1- 8). Vehicles entering the site from Sutter's Landing Park would exit Business I-80 at 29th St and would take E St to 28th St to get into Sutter's Landing Park. Vehicles leaving the site would take Carlson Dr to Fair Oaks Blvd. Vehicles would continue to Howe Ave and drive south to reach US Hwy 50, or drive north and access Business I-80 from Exposition Blvd and Ethan Way. If vehicles enter the site from Glenn Hall Park, vehicles would either access Howe Ave directly from US-Hwy 50 or indirectly from Business I-80 through Ethan Way and Exposition Blvd. From Howe Ave vehicles would take Fair Oaks Blvd to Carlson Dr. Construction vehicles would enter the site through Glenn Hall Park and take the levee maintenance roads out to the entrance of Sutter's Landing Park on 28th St and get back on Business I-80 from 29th St. In addition, the haul routes shown on Figure 1- 8 could be used in both directions if traffic or road closures occur for unforeseen reasons (e.g., emergencies, road construction, etc.) during the construction period.

Chapter 3 Affected Environment and Environmental Consequences

3.1 Approach to the Analysis

This chapter analyzes the potential effects of the Proposed Action on those resources which the action may touch. If the ARCF GRR FEIS/FEIR has already sufficiently analyzed the project's anticipated effects on a resource, Table 3- 2 references the resource topic and the section in the ARCF GRR FEIS/FEIR where the topic was analyzed. Conversely, for those resources which are expected to experience construction effects that were not fully analyzed in the ARCF GRR FEIS/FEIR, a brief summary of the regulatory setting, environmental setting, methodology and analysis of the significance of effects is set forth below.

All avoidance, minimization, and mitigation measures from the ARCF GRR FEIS/FEIR are applicable to both the No Action Alternative and Proposed Action of this SEA, unless specifically stated otherwise. In addition, the analysis presented in the LAR Contract 3A SEIR determined that additional mitigation measures were needed to meet CEQA requirements. These mitigation measures, which are summarized in the Executive Summary Table ES-1 of the LAR Contract 3A SEIR also apply to the LAR Contract 3A Project as a whole.

3.2 Regulatory Setting

The Affected Environment and Environmental Consequences Sections (Section 3) of the ARCF GRR FEIS/FEIR sufficiently characterize the regulatory setting for the Proposed Action.

3.3 Summary of Affected Environment and Environmental Consequences

Table 3- 1 summarizes the environmental consequences of both the Proposed Action and the No Action Alternative. This information is discussed in more detail later on in this Chapter.

Table 3- 1 Summary of Environmental Consequences of the No Action Alternative and the Proposed Action

Resource	No Action Alternative (ARCF GRR FEIS/FEIR)	Proposed Action	Numerical Impact of Proposed Action (if any)	Mitigation (ARCF GRR FEIS/FIER)	Mitigation (Proposed Action)
Visual Resources	Significant	Less than Significant with Mitigation	-	Trees would be planted after construction is completed on planting berms and on top of launchable rock trenches, however there would still be a temporal loss of vegetation. Disturbed areas would be reseeded with native grasses.	Lighting will be shielded or directed. Additional mitigation measures listed in Section 3.15.6 of the ARCF GRR FEIS/FEIR.
Vegetation and Wildlife	Significant Short-term / Less than Significant with Mitigation Long-Term	Less than Significant with Mitigation	From Erosion Protection: 1.25 acres of riparian woodland and 2.67 acres of riparian scrub From Construction Access and Haul Routes: 2.08 acres of riparian woodland and 1.11 acres of	When possible, in-kind compensation would be planted on planting berms, on top of launchable rock trenches, or on other lands within the Parkway. Additional mitigation sites are identified in Section 3.6.6.	Conservation measures in the USFWS BO will be followed. Surveys for migratory birds will be done if vegetation is removed during nesting season. Environmental awareness training will occur if vegetation is removed during nesting season. Additional mitigation measures listed in Section 3.6.6 of the ARCF GRR FEIS/FEIR.

			riparian scrub habitat		
Fisheries	Less than Significant with Mitigation	Less than Significant with Mitigation	8.41 acres of SRA habitat	Vegetation variance would allow waterside vegetation to remain and launchable rock trenches would be revegetated following construction. Best Management Practices (BMPs) would be implemented to address turbidity, and are discussed in Section 3.5.6.	Conditions of the NMFS BO will be followed. Additional mitigation measures listed in Section 3.7.6 of the ARCF GRR FEIS/FEIR.
Special Status Species	Less than Significant with Mitigation	Less than Significant with Mitigation	VELB: 1.63 acres of elderberry shrubs and 8.14 acres of adjacent VELB habitat Cuckoo: 7.11 acres of riparian habitat Salmonid Species: 8.41 acres of SRA habitat	Mitigation per the terms of the Biological Opinions. Replace habitat for species either on-site or in close proximity to lost habitat. Implement BMPs discussed in Section 3.5.6 and conservation measures in the BOs during construction to prevent mortality. .	Follow recommendations in the 2017 USFWS Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle. Additional mitigation measures listed in Section 3.8.6 of the ARCF GRR FEIS/FEIR.

Cultural Resources	Significant	Less than Significant with Mitigation	-	Preparation and implementation of a Programmatic Agreement, Historic Properties Management Plan, and Historic Properties Treatment Plans.	Resolve Adverse Effects through a Programmatic Agreement and Historic Properties Treatment Plan. Prepare an Archaeological Discovery Plan and an Archaeological Monitoring Plan. Conduct Cultural Resources Awareness Training. Implement Procedures for Discovery of Cultural Material.
Air Quality	Less than Significant with Mitigation	Less than Significant with Mitigation	-	Implementation of SMAQMD's Basic Construction Emission Control Practices and other BMPs, as listed in Section 3.11.6.	Implement dust control measures during project construction. Develop and Implement a Plan for Enhanced On-Site Exhaust Controls. To the extent available and feasible, construction equipment would be powered by electricity. Additional mitigation measures listed in Section 3.11.6 of the ARCF GRR FEIS/FEIR.
Transportation and Circulation	Significant	Less than Significant with Mitigation	-	Preparation of a Traffic Control and Road Management Plan and other BMPs listed in Section 3.10.6.	Include signs along affected pedestrian and bike pathways announcing scheduled closures. Place signal personnel at intersections of construction vehicle pathways and active bike and pedestrian pathways. Assess damages to roadways and damages to railroad crossing. Additional mitigation measures listed in Section 3.10.6 of the ARCF GRR FEIS/FEIR.
Climate Change	Less than Significant with Mitigation	Less than Significant with Mitigation	-	Implementation of SMAQMD's Basic Construction Emission Control Practices and other	Mitigation measures listed in Section 3.12.6 of the ARCF GRR FEIS/FEIR.

				BMPs, as listed in Section 3.12.6.	
Recreation	Significant	Less than Significant with Mitigation	-	Notification and coordination with recreation users and bike groups. Flaggers, signage, detours, and fencing to notify and control recreation access and traffic around construction sites.	Closure of paved trails would be noticed 14 days in advance. Provide marked detours for all bike trails and on-street bicycle routes that would be temporarily closed during construction. Provide traffic control in areas where recreational traffic would intersect with construction vehicles. Coordinate with the City of Sacramento and Sacramento County to restore access and repair any construction-related damage to recreational facilities to pre-project conditions. Additional mitigation measures listed in Section 3.14.6 of the ARCF GRR FEIS/FEIR.
Hydrology and Water Quality	Less than Significant with Mitigation	Less than Significant with Mitigation	-	Preparation of a Stormwater Pollution Protection Plan, Spill Prevention Control and Countermeasures Plan, and a Bentonite Slurry Spill Contingency Plan. Implementation of BMPs listed in Section 3.5.6.	Follow conditions listed in the ARCF Programmatic CWA Section 401 Water Quality Certification and Order. Additional mitigation measures listed in Sections 3.4.6 and 3.5.6 of the ARCF GRR FEIS/FEIR.
Noise	Less than Significant with Mitigation	Less than Significant with Mitigation	-	Coordination with local residents, compliance with noise ordinances, and other BMPs, as listed in Section 3.13.6.	Employ vibration-reducing construction practices so that vibration from construction would comply with applicable noise-level rules and regulations. Additional mitigation measures listed in Section 3.13.6 of the ARCF GRR FEIS/FEIR.

Public Utilities and Service Systems	Less than Significant	Less than Significant with Mitigation	-	Notification of potential interruptions would be provided to the appropriate agencies and to landowners.	Coordinate with applicable utility and service providers to implement the orderly relocation of utilities that need to be removed or relocated. Additional mitigation measures listed in Section 3.16.6 of the ARCF GRR FEIS/FEIR.
Geological Resources	Less than Significant with Mitigation	Resource unaffected by action	-	Minimize ground disturbances, stockpile soil on landside of levee reaches, install sediment barriers, replant sites when work is complete, Additional mitigation measures are identified in Section 3.2.6	-
Hazardous Wastes and Materials	Less than Significant with Mitigation	Resource unaffected by action	-	Borrow material would be tested prior to use to ensure that no contaminated soils are used for this project.	-
Land Use	Less than Significant with Mitigation	Resource unaffected by action	-	Complete -	-
Socioeconomics, Population, and Environmental Justice	Less than Significant	Resource unaffected by action	-	Federal Relocation Act compliance.	-

3.4 Resource Topics Not Discussed in Detail

The following resources were eliminated from analysis in this SEA because Contract 3A construction effects on these resources would be negligible, or the project refinements described in the Proposed Action would not create additional impacts beyond those impacts already analyzed in the ARCF GRR FEIS/FEIR: Hazards and Hazardous Materials, Geological Resources, Land use, Socioeconomics, Population, and Environmental Justice. The Section of the ARCF GRR FEIS/FEIR where analysis of these resources was presented is shown in Table 3- 2, below. In compliance with 40 CFR 1501.12, the ARCF GRR FEIS/FEIR is being incorporated by reference to cut down on excess bulk information.

Table 3- 2 Resources Not Assessed in This SEA

	Section of ARCF GRR FEIS/FEIR
Hazards and Hazardous Materials	3.17
Land use	3.3
Geological Resources	3.2
Socioeconomics, Population, and Environmental Justice	3.18

Since the effects were determined not to be adequately described in the ARCF GRR FEIS/FEIR the following resources will be analyzed in more detail: visual resources, vegetation and wildlife, fisheries, special status species, cultural resources, air quality, transportation, climate change, recreation, hydrology and water quality, noise, and public utilities.

3.5 Visual Resources

3.5.1 Existing Conditions

The environmental and regulatory framework described in Section 3.15.1 of the ARCF GRR FEIS/FEIR covering visual resources is generally applicable to the analysis in this SEA and therefore is not repeated here.

3.5.2 Environmental Effects

No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented. This includes bank protection or launchable trench erosion protection only in the area downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation

sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken.

Section 3.15.5 of the ARCF GRR FEIS/FEIR analyzed the impacts on visual resources. Construction activities would result in short-term significant and unavoidable impacts on the visual tranquility of the American River Parkway. Loss of vegetation due to removal and construction of levee improvements would result in significant and unavoidable short-term effects on visual resources of the mature vegetation, but a minor long-term impact with mitigation once vegetation has been reestablished.

Proposed Action

3,000 linear feet of launchable toe would be constructed on the water side of the levee in the American River Parkway. This erosion protection would be placed in a similar location on the levee that bank protection would have been placed as analyzed under the ARCF GRR FEIS/FEIR in section 3.15.5. The additional footprint past the Business I-80 Bridge is adjacent to a residential neighborhood but would not be in view of those residents because of a privacy wall around the neighborhood. Those using the bike trail and recreating on the American River would be able to see the work and the loss of vegetation at these locations. Even though the erosion protection locations upstream of the Business I-80 Bridge was not analyzed in the ARCF GRR FEIS/FEIR, the Project Area is similarly situated and visually similar to the sites that were analyzed. In addition, the erosion protection added to the levee does not increase the overall 11 miles of erosion protection analyzed in the ARCF GRR FEIS/FEIR. Consequently, the visual analysis already provided in the ARCF GRR FEIS/FEIR that found significant unavoidable impacts to visual resources is deemed applicable to the Proposed Action.

The trucks using the top of the levee to haul materials to and from the site would be visible to those residences adjacent to the levee since the levee is taller than the privacy wall surrounding the neighborhood. The location of this work is similarly situated and visually similar to the 11 miles that was analyzed in the ARCF GRR FEIS/FEIR. The ARCF GRR FEIS/FEIR determined that the impact of this effect would be short-term.

Additional analysis is needed for parts of the Proposed Action that were not included in the ARCF GRR FEIS/FEIR analysis. Due to topography and distances to neighborhoods, staging areas would be located out of view from residents on the land side of the levees. The staging areas at Sutter's Landing Park would be in view of those using the bike trail and those recreating at Sutter's Landing Park. The staging area near the Business I-80 Bridge would be in view of those driving on Business I-80. The ARCF GRR FEIS/FEIR already determined that staging areas would have a significant effect on the visual tranquility of the Parkway; the visual effect of the staging areas selected for the Proposed Action would be similar to those assessed in the ARCF GRR FEIS/FEIR.

The ARCF GRR FEIS/FEIR did not consider the impacts of project lighting on visual resources. During construction of the Proposed Action, staging areas would have security lighting to protect construction equipment and stored materials. This would result in new sources of nighttime light that would be visible by anyone commuting on the bike path, recreating at Sutter's Landing Park and vehicles passing near the staging areas. These light sources would in

some cases be adjacent to existing bright lights (e.g., at the skate park parking lot). Night lighting of staging areas would result in a short-term temporary significant impact. However, implementing the mitigation measures set forth in Section 3.15.6 of the ARCF GRR FEIS/FEIR and listed in the mitigation section below would reduce the impact of nighttime lighting to a minor level.

Largely as addressed in the ARCF GRR FEIS/FEIR, the Proposed Action would cause significant unavoidable impacts to visual resources, but adverse impacts from lighting would become minor after implementation of mitigation measures in the ARCF GRR FEIS/FEIR and the mitigation measure set forth below.

Additional Avoidance, Minimization and Mitigation Measures

- USACE and CVFPB shall require its construction contractors to ensure that all temporary lighting used for security of the staging areas is shielded or directed to avoid or minimize any direct illumination onto light-sensitive receptors located outside of the Project Area.

3.6 Vegetation and Wildlife

3.6.1 Existing Conditions

The environmental and regulatory framework described in Section 3.6.1 of the ARCF GRR FEIS/FEIR is generally applicable to the analysis in this SEA and therefore is not repeated here. Detailed habitat maps are included in Appendix C of the ARCF GRR FEIS/FEIR. In addition, updated site-specific maps of habitats and wetlands can be found in Appendix A, B and C of the LAR Contract 3A SEIR.

In 2021 USACE reinitiated consultation with the US Fish and Wildlife Service (USFWS) for the ARCF 2016 Projects. The resulting Biological Opinion (BO) (08ESMF00-2014-F-0518-R003) was issued on March 31, 2021.

3.6.2 Environmental Effects

3.6.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented, including bank protection or launchable trench erosion protection only in the area downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. Section 3.6.4 of the ARCF GRR FEIS/FEIR estimated 65 acres of riparian habitat impact for launchable trench protection on the American River. Approximately 28.89 acres of riparian habitat would be impacted from activities associated with LAR Contracts 1 and 2. The removal of riparian habitat would be mitigated at a 2:1 ratio (or at a 3:1 ratio if the area is also considered VELB habitat) by planting new riparian habitat onsite and at the Rossmoor West, Rossmoor East, Glenn Hall Park, Rio Americano West, or Rio Americano East Mitigation Site.

The removal and replanting of vegetation on the sites would cause significant short term temporal loss of habitat. These impacts would be minor in the long term once newly planted vegetation is established. In addition, vegetation removal and construction activities may impact birds nesting in trees within the Project Area. Any impacts would be minor once mitigation measures listed in Section 3.6.6 of the ARCF GRR FEIS/FEIR were implemented.

3.6.2.2 Proposed Action

Even though the erosion protection locations upstream of the Business I-80 Bridge were not analyzed in the ARCF GRR FEIS/FEIR, the Project Area is similarly situated and ecologically similar to the sites that were analyzed. In addition, the erosion protection added to the levee is well within the 11 miles of erosion protection analyzed in the ARCF GRR FEIS/FEIR and authorized for the overall ARCF 2016 Project work on the American River. Site specific surveys and analyses on haul routes, erosion protection areas, and staging areas (see Figure 1- 4 and Figure 1- 5 for the project locations) were completed in the LAR Contract 3A SEIR. This analysis found that under the Proposed Action, impacts from installation of erosion protection would include the loss of 1.25 acres of riparian woodland and 2.67 acres of riparian scrub in the footprint of the Project Area. Riparian habitat would also be damaged and removed within construction access areas and haul routes, resulting in removal of 2.08 acre of riparian woodland and 1.11 acre of riparian scrub habitat. Overall, a total of 7.11acres of riparian habitat (including some VELB habitat, which is discussed in Section 3.8 of this SEA) would be impacted by the Proposed Action. The total impacts to riparian habitat from LAR Projects (28.89 acres was impacted by LAR Contract 1 and LAR Contract 2) is still below the 65 acres of impact that was forecasted in the ARCF GRR FEIS/FEIR. Consequently, the impact analysis already presented in the ARCF GRR FEIS/FEIR that anticipated significant unavoidable impacts on vegetation and wildlife from project construction is deemed applicable to the impacts expected from the Proposed Action. The impacted riparian habitat would be mitigated at a 2:1 ratio (or at a 3:1 ratio if the area is also considered VELB habitat) by planting new riparian habitat onsite and offsite following the USFWS BO.

Removing vegetation only outside the nesting season forces vegetation removal into the rainy season and the flood season. In order to ensure that vegetation removal can be completed if it is a time of year where rainy weather or high river flows prevail, it would be necessary to perform some of the vegetation removal during the nesting season to provide adequate time for the removal. If trees must be removed during nesting season, the mitigation measures listed below and in the ARCF GRR FEIS/FEIR would be followed to ensure that there are only minor impacts to nesting birds, including the use of onsite biological monitors and pre-construction surveys. These steps would reduce possible impacts to nesting birds from vegetation removal.

The impacts of specific haul routes and staging areas planned for the Proposed Action were not analyzed in the ARCF GRR FEIS/FEIR. Use of the parking lots in Sutter's Landing Park would cause no additional adverse impacts to vegetation or wildlife since the parking lots are paved or have gravel. The staging area downstream of the Business I-80 Bridge is disturbed ruderal herbaceous habitat. No trees would be removed from this staging area. The haul route through Glenn Hall may require trimming trees within the park. In addition, vegetation will need to be removed for the haul routes just upslope from the erosion protection work and at the ramps leading to the erosion protection work. In addition, if offsite stockpiling is needed, no trees would be removed from the stockpiling location. Most trees in the Project Area are considered to

be either VELB habitat or riparian habitat and impacts to these habitats would be mitigated at a 3:1 or 2:1 ratio respectively on and offsite. With mitigation measures, the impacts from the Proposed Action on vegetation would be adverse in the short-term but minor in the long-term once vegetation is reestablished.

In addition, consultation with USFWS was reinitiated in 2020 and a revised BO was received in 2021. The resulting BO has outlined additional conservation measures that need to take place in order to protect sensitive plants and animals. An additional mitigation measure has been listed below would be implemented to ensure compliance with the BO.

Overall, the Proposed Action would cause some short-term adverse impacts to vegetation and wildlife. These impacts would be minor in the long-term after vegetation is reestablished and after implementation of other mitigation measures. In addition, once mitigation measures are implemented, there may be minor impacts on nesting birds if vegetation clearing occurs during nesting season.

Additional Avoidance, Minimization and Mitigation Measures

- The conservation measures relevant to the Proposed Action that are listed in the 2021 USFWS Biological Opinion (08ESMF00-2014-F-0518-R003) will be followed. Following this BO will require coordination with USFWS throughout the project. These conservation measures supersede any associated mitigation measures listed in the ARCF GRR FEIS/FEIR.

- Before ground disturbance, all construction personnel would participate in a USFWS-approved worker environmental awareness program. A qualified biologist would inform all construction personnel about the life history of nesting birds, as well as the importance of nest sites and foraging habitat.

- Migratory bird nest surveys will be conducted if work occurs in nesting season, with at least one survey to be conducted no more than 48 hours from the initiation of project activities to confirm the absence of nesting. If the biologist determines that the area surveyed does not contain any active nests, construction activities, including removal or pruning of trees and shrubs, could commence without any further mitigation. If at any time during the nesting season construction stops for a period of 2 weeks or longer, pre-construction surveys would be conducted before construction resumes. If nesting birds have been identified within or adjacent to the construction footprint, USACE would establish avoidance buffers (100 feet for passerines; 300 feet for raptors; 200 feet for heron or egret rookeries). Reduced buffers may be implemented if recommended by the monitoring biologist and approved by USFWS. Buffers would be marked in the field by a qualified biologist using temporary fencing, high-visibility flagging, or other means that are equally effective in clearly delineating the buffers.

3.7 Fisheries

3.7.1 Existing Conditions

The ARCF GRR FEIS/FEIR identified the important attributes of fish habitat present in the Lower American River as aquatic vegetation and Shaded Riverine Aquatic (SRA) habitat. A more detailed description of regional and local fisheries can be found in Section 3.7.1 of the ARCF GRR FEIS/FEIR.

In 2021, Environmental Science Associates biologists conducted aquatic vegetation and SRA habitat surveys in the Project Area. A map of areas determined to be SRA habitat are in Appendix A and B of the LAR Contract 3A SEIR. Also, in 2021, USACE reinitiated consultation with the National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NMFS) and NMFS issued a new BO (WCRO-2020-03082) on May 12, 2021.

3.7.2 Environmental Effects

3.7.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR (Alternative 2) would be implemented. Bank protection or launchable rock trench would be installed at the site downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. Section 3.7.5 of the ARCF GRR FEIS/FEIR estimated that a total of 31,000 linear feet of SRA habitat would be impacted by LAR Projects. Due to updates from the 2021 NMFS BO, the impacts to SRA habitat were calculated in acres, not in linear feet, for LAR Contract 1 in Section 3.5.3 of the LAR Contract 1 SEA/SEIR and for LAR Contract 2 in Section 3.5.3 of the LAR Contract 2 SEIS/SEIR. A total of 13.94 acres would be impacted by these projects. Approximately 3,403 linear feet of SRA habitat is present within the project site for LAR Contract 1 and approximately 8,148 linear feet is present within the project site for LAR Contract 2. Thus, a total of 11,551 linear feet of SRA habitat could have been impacted by these contracts, well within the overall total estimate set forth in Section 3.7.5 of the ARCF GRR FEIS/FEIR.

There are some anticipated impacts that may occur directly to fish. Rock placement below the water line during erosion protection activities would likely disturb resident fish by increasing noise, water turbulence, and turbidity, causing them to move away from the area of rock placement and putting them at a slightly increased risk of predation. In addition, construction of bank protection would disturb soils and lead to increased turbidity in the nearshore aquatic habitat, notwithstanding runoff protection measures the contractor would be required to follow. The increase in suspended solids and turbidity would generally be short term, but sedimentation and heightened turbidity may affect fish physiology, behavior, and habitat.

Direct effects on fish habitat would be limited because existing conditions would not be worsened by project construction, which include creating planting berms to provide shade and instream woody material, elements of SRA habitat. A temporary short-term loss of SRA habitat

would occur, but over the long-term the erosion repair sites would support higher quality SRA habitat than under existing conditions.

3.7.2.2 Proposed Action

Even though the erosion protection locations upstream of the Business I-80 Bridge were not analyzed in the ARCF GRR FEIS/FEIR, the Project Area is similarly situated and ecologically similar to the sites that were analyzed. In addition, the erosion protection added to the levee does not increase the overall 11 miles of erosion protection analyzed in the ARCF GRR FEIS/FEIR.

Consultation with NMFS has been reinitiated since the ARCF GRR FEIS/FEIR analysis. The new 2021 NMFS BO updated the method for calculating SRA from linear feet to acres. An analysis of the haul routes, erosion protection area, and staging areas (see Figure 1- 4 and Figure 1- 5 for the project locations) in the LAR Contract 3A SEIR determined that a total of 8.41acres of SRA habitat would be impacted by the Proposed Action. In order to ensure that the Proposed Action does not impact more SRA habitat on the LAR then the 31,000 linear feet that was analyzed in the ARCF GRR FEIS/FEIR, the linear feet of the whole Project Area would be used to judge the impact. The LAR Contract 3A Project Area contains approximately 3,000 linear feet of toe erosion protection, meaning that up to 3,000 linear feet of SRA habitat might be impacted. The LAR Contract 1 and Contract 2 work sites include a total of 11,551 linear feet of SRA habitat. Thus, under a worst-case scenario, a total of 14,551 linear feet of SRA habitat could be impacted by LAR Projects, well under the estimated 31,000 linear feet of SRA habitat analyzed in the ARCF GRR FEIS/FEIR. Consequently, the original impact analysis for fisheries in the ARCF GRR FEIS/FEIR fully covers the anticipated impacts from the Proposed Action.

The ARCF GRR FEIS/FEIR considered impacts to fish from construction and operation of launchable rock trenches as the project's erosion protection method, not the launchable rock toe methodology that the revised design for LAR Contract 3A would employ. At extreme flood flows, when the rock would launch, the mobilized large rock could physically hurt fish in the channel. However, it is assumed that if no rock were to be launched the levee would overtop or breach, causing fish to be transported out of the floodway where they would most likely die. In addition, if the launchable toe would launch, there would not be structure to maintain the planting bench, impacting SRA habitat over the life of the erosion protection. Planting bench tiebacks have been included in the final LAR Contract 3A design to reduce loss of the planting benches if erosion does occur so these impacts would be minor compared to the impacts if launchable trench were used. The whole riverbank would have to erode during high flows before the launchable trench is launched, causing a loss to all of the habitat on the riverbank, not just a portion of the planting bench, which would be the case when the launchable rock toe approach is used. In addition, placing bank protection, the other erosion protection method analyzed in the ARCF GRR FEIS/FEIR, on the bank would not provide as high quality of SRA habitat as compared to what the planting benches would be able to provide. The launchable toe provides structure to hold a large planting bench that will provide more habitat for SRA and riparian vegetation than what a berm on the riverbank would be able to provide. Overall, there will be only minor impacts to fisheries resources from the Proposed Action.

Staging areas and haul routes are not near the waterways and would not have an impact on fisheries. Mitigation measures already listed in Section 3.5.6 of the ARCF GRR FEIS/FEIR

would protect the river from stormwater runoff from haul routes and staging areas, safeguarding water quality and fisheries and ensuring that at most insignificant, short-term minor impacts could occur.

Finally, the reinitiated NMFS BO from 2021 imposes additional conditions that need to be followed during project construction to minimize the impacts to protected fish species. This BO outlines the onsite mitigation and offsite mitigation plans and options. A mitigation measure would be implemented and is listed below to ensure the Proposed Action is in compliance with the BO and would ensure only minor impacts occur to fisheries.

After required mitigation measures are implemented, short-term minor impacts to fisheries could occur during project construction and in the event the launchable rock toe actually launches during a flood. However, the structure of the launchable toe provides the ability to hold planting benches and planting benches will provide better habitat than what would be created using bank protection and a planting berm (what was analyzed in the ARCF GRR FEIS/FEIR).

Additional Avoidance, Minimization and Mitigation Measures

- Mitigation measures in Section 3.6.2.2 is also relevant here.

- The conditions relevant to the Proposed Action that are listed in the 2021 NMFS Biological Opinion will be followed. (WCRO-2020-03082). These conditions supersede any associated mitigation measures listed in the ARCF GRR FEIS/FEIR.

3.8 Federal Status Species

3.8.1 Existing Conditions

The environmental and regulatory framework described in Section 3.8.1 of the ARCF GRR FEIS/FEIR is generally applicable to the Proposed Action and therefore is not repeated here. Detailed habitat maps are included in Appendix C of the ARCF GRR FEIS/FEIR. In addition, site specific surveys were completed for VELB and elderberries in 2019 and 2020 by Environmental Science Associates. The location of federal status species habitat found by the survey in the Project Area is provided in Appendix A and B of the LAR Contract 3A SEIR.

In 2021 USACE reinitiated consultation with USFWS for the ARCF 2016 Projects. The USFWS issued a new BO on March 31, 2021. Also, as mentioned above, USACE reinitiated consultation with NMFS, which issued its new BO on May 12, 2021. In addition, *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle* was published by USFWS in 2017. Under this framework and the USFWS BO, VELB habitat is defined to include elderberry clusters. In addition, areas within 82 feet of elderberry clusters and above the Ordinary High Water Mark (OHWM) are considered VELB habitat.

3.8.2 Environmental Effects

3.8.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented. Bank protection or launchable rock trench would be installed

at the site downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. A thorough summary of specific impacts can be found in Section 3.8.5 of the ARCF GRR FEIS/FEIR, Section 3.6.3 of the LAR Contract 1 SEA/SEIR, and Section 3.6.3 of the LAR Contract 2 SEIS/SEIR. A summary of these impacts is listed below.

Valley Elderberry Longhorn Beetle (Desmocerus californicus dimorphus)

The ARCF GRR FEIS/FEIR estimated a total of 3,129 stems of elderberry plants, habitat to VELB, would be impacted by projects on the LAR. LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR were calculated to impact a total of 1.63 acres of elderberry shrubs and 8.14 acres of adjacent VELB habitat, or 9.77 acres overall. Additional VELB habitat would be planted and elderberry bushes would be transplanted to mitigate the VELB impact at a 3:1 ratio offsite at the Rossmoor West, Rossmoor East, Glenn Hall Park, Rio Americano West, or Rio Americano East Mitigation Site. Future levee maintenance activities may require trimming of elderberries and could impact VELB. Any impacts that could jeopardize the survival of VELB as a species would be reduced by implementing the mitigation measures listed in the ARCF GRR FEIS/FEIR, but the No Action/No Project Alternative (Alternative 2 in the ARCF GRR FEIS) would adversely affect VELB as take would occur.

Western Yellow-Billed Cuckoo (Coccyzus americanus)

The LAR riparian corridor provides suitable stopover and potential foraging habitat for the Federally listed cuckoo. While the Project Area is outside the nesting range of the cuckoo, which requires large blocks of riparian habitat with dense understory foliage for nesting, transient individuals could use the project area during migration. Riparian habitat is considered cuckoo stopover habitat. Impacts to riparian habitat were discussed in Section 3.6.2.1, above. Impacts to riparian habitat is a proxy to potential take of cuckoo as riparian habitat is considered suitable stopover and foraging habitat for cuckoo in the LAR. As such, the No Action/No Project Alternative (Alternative 2 in the ARCF GRR FEIS) would adversely affect cuckoo.

Federally Listed Fish Species

Central Valley Steelhead (*Oncorhynchus mykiss*) may be present in the Project Area. In addition, the Project Area is within designated critical habitat for Central Valley spring-run Chinook salmon and California Central Valley steelhead. The environmental impacts listed in Section 3.7.2.1 of this SEA are also applicable here. The No Action/No Project Alternative (Alternative 2 in the ARCF GRR FEIS/FEIR) would have a temporary, adverse effect on suitable habitat (the area below the OHWM of the river) for steelhead in the LAR during construction of the bank protection features.

3.8.2.2 Proposed Action

Valley Elderberry Longhorn Beetle (Desmocerus californicus dimorphus)

The impacts discussed in Section 3.6.2.2, above, are also relevant here. In addition, a *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle* was published by USFWS in 2017, after the ARCF GRR FEIS/FEIR was finalized, and provides additional

guidance measures to protect VELB when working around elderberries. In addition, a new USFWS BO was reinitiated in 2021 to meet the updated needs of the ARCF 2016 Projects, which provides new conservation measures that need to be implemented to reduce the risk of impact to VELB.

An analysis of the haul routes, erosion protection area, and staging areas (see Figure 1- 4 and Figure 1- 5 for the project locations) in the LAR Contract 3A SEIR determined that a total of 3.24 acres of elderberry shrubs and nearby habitat (riparian habitat within 82 feet of the shrub) would be impacted by the Proposed Action. Even though this will be an adverse impact, consultation with USFWS determined that it would not be detrimental to the species if conservation measures are followed. The conservation measures listed in the reinitiated 2021 USFWS BO would be followed in order to minimize impacts to VELB below a significant level. This includes transplanting elderberries to an offsite location and planting offsite mitigation at a 3:1 ratio.

The impacts of the specific haul routes and staging areas within the Proposed Action was not analyzed in the ARCF GRR FEIS/FEIR. The staging area near the Business I-80 Bridge and the haul routes on the levee are within 100 feet of elderberry shrubs. Any impacts to VELB would be reduced by implementing the mitigation measures listed in the mitigation section below, but Contract 3A would adversely affect VELB as take would occur. In addition, if offsite stockpiling is needed, only locations free of elderberries will be used.

Future levee maintenance activities may require trimming of elderberries and could impact VELB. The USFWS BO will be followed to ensure that only minor impacts occur to VELB from these activities.

Mitigation measures listed below would be implemented to ensure that the Proposed Action is in compliance with these two documents in order to minimize impacts to VELB from significant impacts to adverse and minor impacts.

Western Yellow-Billed Cuckoo (Coccyzus americanus)

Impacts to riparian habitat, which is cuckoo stopover habitat, has already been discussed in Section 3.6.2.2 of this SEA. Impacts to riparian habitat is a proxy to potential take of the cuckoo as riparian habitat is considered suitable stopover and foraging habitat for cuckoo in the LAR. As such, Contract 3A would adversely affect cuckoo. In addition, if offsite stockpiling is needed, only locations free of cuckoo will be used.

Federally Listed Fish Species

Central Valley Steelhead may be present in the Project Area. Central Valley Fall/Late Fall-Run Chinook are also present and are the primary fish raised at Nimbus Hatchery, but are not federally listed. The Project Area is also within designated critical habitat for Central Valley spring-run Chinook salmon and California Central Valley steelhead. The impacts discussed in Section 3.7.2.2 of this SEA would also be relevant to the federally listed fish species. It is anticipated that Contract 3A would have a temporary, adverse effect on suitable habitat (the area below the OHWM of the river) for steelhead in the LAR during temporary access to the river and placement of the rock slope protection.

Additional Avoidance, Minimization and Mitigation Measures

- Mitigation measures in Sections 3.6.2.2 and 3.7.2.2 are also relevant here.

- The recommendations listed in the 2017 USFWS *Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle* relevant to the Proposed Action will be followed. These recommendations supersede any associated mitigation measures listed in the ARCF GRR FEIS/FEIR.

3.9 Cultural Resources

3.9.1 Existing Conditions

ARCF GRR FEIS/FEIR Section 3.9.1 adequately describes the regional and local cultural resources setting in the vicinity of the Project Area.

3.9.2 Environmental Effect

3.9.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR (alternative 2) would be implemented. The ARCF GRR FEIS/FEIR concluded that mitigation measures would reduce potential impacts of the project to cultural resources under NEPA and Section 106 of the National Historic Preservation Act (NHPA) to a less-than-significant level as any adverse effects would be resolved by implementing requirements contained in the ARCF Section 106 Programmatic Agreement (PA).

3.9.2.2 Proposed Action

Erosion protection measures would include substantial ground disturbance, including bank excavation and riprap placement, use of staging areas, and habitat mitigation. These earthmoving activities could damage or destroy unknown subsurface historic-period sites, prehistoric-period archaeological sites, and properties with significance to Native American tribes. If offsite stockpiling is needed, all proposed stockpile areas will be inventoried for cultural resources and assessed for effects to historic properties under the PA and ARCF GRR Historic Properties Management Plan (HPMP).

One potential historic property is located within the Proposed Action APE that was not discussed in the ARCF GRR FEIS/FEIR: P-34-005121 American River Railroad Bridge, a 1910 stationary truss railroad bridge associated with the Central Pacific Railroad. In accordance with the ARCF PA, confirmation of National Register of Historic Places (NRHP) eligibility and findings of effect and appropriate mitigation would be made through consultation between USACE, the California State Historic Preservation Officer (SHPO), and other ARCF PA Parties, as appropriate, prior to initiating construction of the Proposed Action. USACE has initiated consultation with the SHPO and Tribes regarding the definition of the Area of Potential Effects (APE) for the proposed action and will be continuing consultation regarding identification of historic properties and finding of effect for the proposed action in the coming months. Correspondence regarding the APE consultation is attached in Appendix A.

Avoidance, Minimization, and Mitigation Measures

The following mitigation measures augment the mitigation identified in the ARCF GRR FEIS/FEIR, including actions to address adverse effects to historic properties and discovery of archaeological resources. If the project is implemented, USACE and the CVFPB would implement the measures as described.

- **Resolve Adverse Effects through a Programmatic Agreement and Historic Properties Treatment Plan.**
    - A Programmatic Agreement has been executed for the ARCF 2016 Project. A Historic Properties Treatment Plan (HPTP) would be developed if the proposed action is found to result in adverse effects to historic properties.

- **Prepare an Archaeological Discovery Plan and an Archaeological Monitoring Plan.**
    - In accordance with the procedures described in Section 9.2 of the ARCF HPMP, an archaeological discovery plan would be developed for the Proposed Action. The discovery plan would specify what actions must be taken by the contractor in the event of an archaeological discovery and describe what actions USACE may take in the event of a discovery.

    - In accordance with the procedures described in Section 9.3.9 of the ARCF HPMP, an archaeological monitoring plan would be developed for the Proposed Action. This plan would identify the locations of known Historic Properties as well as sensitive areas designated for archaeological monitoring and would include methods and procedures for monitoring and the procedures to be followed in the event of a discovery of archaeological materials.

- **Conduct Cultural Resources Awareness Training.**
    - In accordance with the procedures described in Section 9.1 of the ARCF HPMP, USACE would require the contractor to provide a cultural resource sensitivity and awareness training program for all personnel involved in project construction, including field consultants and construction workers. The training would be developed in coordination with an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for Archaeology, as well as culturally affiliated Native American tribes. USACE may invite Native American representatives from interested culturally affiliated Native American tribes to participate.

- **Implement Procedures for Discovery of Cultural Material.**
    - If the discovery of cultural materials (e.g., unusual amounts of shell, animal bone, any human remains, bottle glass, ceramics, building remains), sacred sites, or landscapes is made at any time during project-related construction activities, USACE in consultation with the CVFPB and other interested parties would develop appropriate protection and avoidance measures where feasible. These procedures would be developed in accordance with the ARCF PA and ARCF HPMP, which specifies procedures for post-review discoveries. Additional

measures, such as development of HPTPs prepared in accordance with the PA and HPMP, may be necessary if avoidance or protection is not possible.

3.10 Air Quality

3.10.1 Existing Conditions

The ARCF GRR FEIS/FEIR Section 3.11.1 adequately describes the regional and local air quality setting in the Project Area and surrounding vicinity.

3.10.2 Environmental Effects

3.10.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR (Alternative 2) would be implemented. Bank protection or launchable rock trench would be installed at the site downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. The ARCF GRR FEIS/FEIR determined in Section 3.11.5 that Alternative 2 would exceed Sacramento Metropolitan Air Quality Management District (SMAQMD)'s mass daily emission threshold for NOx, PM10, and PM2.5 (Table 3- 5) (SMAQMD 2020a). In addition, USACE released a conformity determination for public notice in March 2020, and the final report was posted in June 2021. The total NOx emissions of the overall ARCF 2016 Project are expected to exceed the EPA's General Conformity de minimis thresholds during several of the ARCF 2016 Project's construction years, including 2023 when construction of the erosion protection, including LAR Contract 3A work, is expected to occur. USACE expects to purchase offsets for NOx emissions from SMAQMD to mitigate these exceedances.

In addition, mitigation measures listed in Section 3.11.6 of the ARCF GRR FEIS/FEIR would be implemented to reduce other air quality impacts, including dust emissions, lowering this adverse effect to an insignificant level. Because the public's exposure to toxic air contaminants produced by the 2016 ARCF Project construction contractors' equipment would persist for a relatively short duration compared to the time needed for chronic exposure, the increased air quality health risks caused by the project would be minor. Construction of the No Action Alternative would not result in any major source of odor, and the project would not involve operation of any of the common types of facilities that are known to produce odors. After project construction is complete, any emissions that result from long-term operational activities would not exceed SMAQMD or *de minimis* thresholds and would be minor.

3.10.2.2 Proposed Action

The ARCF GRR FEIS/FEIR's air analysis cannot be directly compared to the LAR Contract 3A project since some of the project area was not included in the initial analysis and since the timing of the construction activities of that ARCF 2016 Projects have changed. A separate analysis is needed to ensure that there will not be a significant impact. In order to ensure that air emissions for the Proposed Action would not cause a significant impact, a qualitative comparison

has been done with the LAR Contract 1 SEA/SEIR. A qualitative analysis is applicable in this situation because the types of construction activities in LAR Contract 1 are similar to the LAR Contract 3A Proposed Action. Overall, the analysis done in the LAR Contract 1 SEA/SEIR determined that even though emissions for NOx will be over the SMAQMD Threshold, mitigation measures would be put in place to reduce the impact from a significant level to a short-term minor level. The amount of material being hauled for LAR Contract 1 is three times the amount that is anticipated for the LAR Contract 3A Proposed Action (Table 3- 3). In addition, the amount of equipment required for LAR Contract 1 is almost 4 times more than the equipment needed for the LAR Contract 3A Proposed Action (Table 3- 4). Accordingly, emissions released during construction of the LAR Contract 3A Proposed Action should be well below those estimated to be produced during LAR Contract 1 levee reconstruction work. In addition, mitigation measures described for the Proposed Action in the LAR Contract 1 SEA/SEIR would also be implemented during construction of the LAR Contract 3A proposed action and should similarly decrease the impacts caused by LAR Contract 3A emissions to a minor level.

Table 3- 3 Materials needing to be hauled for LAR Contract 3A and LAR Contract 1

	LAR Contract 3A	**LAR Contract 1**
Material	**Quantity**	**Quantity**
Instream Woody Materials	160 trees	300 trees
Excavated Soil	3,500 cubic yards (cy)	-
Riprap	23,400 cy	179,100 cy
Soil-filled Riprap	10,000 cy	-
Bedding Material	7,520 cy	-
Planting bench soil	21,000 cy	57,000 cy
Aggregate Base	4,100 cy	-
Total	**69,520 cy**	**236,100 cy**

Table 3- 4 Equipment and Staff Needed for LAR Contract 3A and LAR Contract 1

	LAR Contract 3A			**LAR Contract 1**		
Type of Equipment	Max. Number Used per Day	Total Operation Days	Number of Workers	Max. Number Used per Day	Total Operation Days	Number of Workers
Excavator	2	80	2	26	120	65
Dozer	2	60	2	1	60	1
Skid Steers	3	80	3	-	-	-
Roller or grader	1	30	1	1	60	1
Dump Truck	20	60	20	48	120	48

55-ton Crane	1	15	1	-	-	-
Pickup Trucks	5	80	5	-	-	-
Flatbed Truck	1	20	1	1	60	1
Sheepsfoot Roller	2	40	2	-	-	-
4” pump	-	-	-	4	60	
Front End Loader	-	-	-	5	120	5
Transfer Dump Truck	-	-	-	46	120	46
Water truck	1	80	1	1	120	1
Total	**38**	**545**	**38**	**133**	**840**	**168**

A site-specific air quality analysis was done under Section 3.9.3 of the LAR Contract 1 SEA/SEIR and the results of the estimated daily emissions can be seen in Table 3- 5. It was determined that construction-related emissions under the LAR Contract 1 Proposed Action would exceed SMAQMD’s mass daily emission threshold for NOx. Implementing mitigation measures recommended by SMAQMD, listed below, and listed in Section 3.11.6 of the ARCF GRR FEIS/FEIR would reduce NOx in off-road equipment by 10 percent. However, when comparing LAR Contract 1’s air analysis with LAR Contract 3A, LAR Contract 3A construction-related emissions of NOx would still exceed the SMAQMD’s threshold. USACE would pay an off-site mitigation fee to the SMAQMD’s NOx mitigation fee program for NOx emissions to reduce the impacts from NOx emissions.

Table 3- 5 LAR Contract 1 Air Analysis Results

	Site 2-1 + Mitigation Sites (lbs/day)	SMAQMD Threshold (lbs/day)
ROG	9	N/A
NOX	194	85
CO	92	N/A
PM10	32	0*
PM2.5	5	0*

*SMAQMD has a zero pound per day threshold of PM, when best available controls are not implemented but threshold with incorporated controls are 80 lb/day for PM_{10} and 82 lb/day for PM_{2}.

The ARCF GRR FEIS/FEIR assumed that all of the ARCF 2016 Projects would be completed within 10 years. However, these projects are now scheduled to be completed within 5

years instead. This means more work will be undertaken during each year than the ARCF GRR FEIS/FEIR anticipated. However, USACE released a conformity determination for public notice in March 2020, and the Final General Conformity Determination for the American River Watershed Common Features 2016 Project was posted in June 2021. The General Conformity Report looked at the entirety of the ARCF 2016 Project and the possible associated emissions. The total NOx emissions of the overall ARCF Project are expected to exceed the EPA's General Conformity *de minimis* thresholds during several of the ARCF 2016 Project's construction years, including 2023, when the LAR Contract 3A Proposed Action is anticipated to be constructed. USACE expects to purchase offsets for NOx emissions from SMAQMD, which is a mitigation measure already implemented by the ARCF GRR FEIS/FEIR. The impacts from increased NOx emissions due to the accelerated timeline would be minor with the purchases of NOx offsets.

Individually, LAR Contract 3A would cause only minor levels of emissions (lower than those disclosed for LAR Contract 1). LAR Contract 3A would be completed in one construction season over the course of one calendar year. Together with other ARCF 2016 Project activities occurring in 2023, the ARCF 2016 Project as a whole would exceed general conformity *de minimis* thresholds for that year. The ARCF GRR FEIS/FEIR identified air quality as having a potentially significant effect under a 10-year project build-out scenario. Compressing the schedule to 5 years under the Supplemental Program, the ARCF 2016 Project's annual emissions will increase, including during 2023, the year in which Contract 3A is proposed for construction. Emission offsets would be purchased to mitigate for ARCF 2016 Project contracts being built in 2023. No individual general conformity report is required for Contract 3A.

Additional Avoidance, Minimization and Mitigation Measures

The following mitigation measure from Section 3.11.6 of the ARCF GRR FEIS/FEIR will not be implemented because it is not a practical measure for a linear construction project consisting of multiple multi-thousand-foot construction areas.: *Install wind breaks (e.g., plant trees, solid fencing) on windward side(s) of construction areas.*

All other mitigation measures for Air Quality listed in the ARCF GRR FEIS/FEIR will be implemented. In addition, the following mitigation that were not included in the ARCF GRR FEIS/FEIR will be implemented.

- USACE would implement the following control measures during project construction:
    - Control fugitive dust as required by District Rule 403 and enforced by District staff.
    - Limit vehicle speeds on unpaved roads to 15 miles per hour.
    - Maintain all construction equipment in proper working condition according to the manufacturer's specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated.
- USACE will ensure that Water exposed soil with adequate frequency for continued moist soil; however, do not overwater to the extent that sediment flows from the site.
- Develop and Implement a Plan for Enhanced On-Site Exhaust Controls.

- Actual emissions of nonattainment and maintenance pollutants would be tracked monthly using tools acceptable to SMAQMD (e.g., construction mitigation calculator, SMAQMD's Equipment List). USACE shall submit to SMAQMD a comprehensive inventory of all off-road construction equipment (50 horsepower or more) to be used 8 hours or more during project construction. The tracking data would be used to verify that all pollutants remain below the daily thresholds, General Conformity de minimis thresholds, or are fully mitigated and offset if emissions exceed either.

- The initial report would include all the following details:

  - Information about the project information and the construction company.

  - The equipment type, horsepower rating, engine model year, projected hours of use, and California Air Resources Board (CARB) equipment identification number for each piece of equipment in the plan.

  - All owned, leased, and subcontracted equipment to be used.

- Updated reports would be submitted monthly to demonstrate continued project compliance.

- SMAQMD may conduct periodic site inspections to determine compliance. Nothing in this mitigation would supersede other air district, state, or federal rules or regulations.

- To the extent available and feasible, construction equipment would be powered by electricity, rather than diesel fuel, which would reduce construction-related criteria air pollutants, Total Air Contaminants, and tailpipe GHG emissions associated with diesel fuel combustion.

- The contractor would pay the appropriate SMAQMD-required NOx mitigation fee to offset the project's NOx emissions when they exceed SMAQMD's threshold of 85 lb/day. The NOx mitigation fee would apply to all emissions from the project: on-road (on- and off-site), off-road, portable, stationary equipment, and vehicles.

3.11 Transportation and Circulation

3.11.1 Existing Conditions

Section 3.10.1 of the ARCF GRR FEIS/FEIR describes the regional and local setting in the vicinity of the Project Area, but additional information specific to the Project Area is provided below.

The contractor's vehicles would access the Project Area from the state highway system via Business I-80. The nearest highway interchanges to the Project Area include the freeways, highways and local roads around Business I-80 near Exposition Blvd and E St.

3.11.2 Environmental Effects

3.11.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented. Bank protection or launchable rock trench would be installed at the site downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken.

Section 3.10.5 of the ARCF GRR FEIS/FEIR analyzed the impacts to transportation and circulation associated with construction of levee improvements throughout the Sacramento area, including construction of levee improvements in the Project Area. The ARCF GRR FEIS/FEIR transportation and circulation impact analysis identified that construction of proposed levee improvements would intermittently generate substantial volumes of traffic, due to the amount earthwork involved and the need for material deliveries, resulting in significant temporary and short-term impacts. In addition, construction of levee improvements on the American River would require trucks to enter the American River Parkway, and the increased traffic in the American River Parkway would result in significant temporary and short-term impacts on recreational users, bicycle commuters, and residents adjacent to the levee structure. Outside of the American River Parkway, hauling on residential roads to access the American River Parkway would result in significant temporary and short-term impacts to residents along the selected routes.

3.11.2.2 Proposed Action

Even though the erosion protection locations upstream of the Business I-80 Bridge were not analyzed in the ARCF GRR FEIS/FEIR, access to the Project Area is the same. In addition, the erosion protection added to the levee does not increase the overall 11 miles of erosion protection analyzed in the ARCF GRR FEIS/FEIR. Consequently, the transportation and circulation analysis already presented in the ARCF GRR FEIS/FEIR is applicable to the transportation and circulation impacts from the Proposed Action.

The ARCF GRR FEIS/FEIR did not analyze specific haul routes because haul routes were unknown at the time. Because of this, the traffic analysis done in the ARCF GRR FEIS/FEIR was limited and brief. However, Section 3.10.5 of the ARCF GRR FEIS/FEIR determined that the increase in traffic due to project-related construction activities would be temporarily significant and unavoidable for the overall ARCF 2016 Project. In order to determine whether additional transportation impacts from the specific haul routes recently identified in the final design for the LAR Contract 3A sub-project would occur, a qualitative analysis of impacts associated with performance of the LAR Contract 1 Project serves as a useful proxy because the types of construction activities in LAR Contract 1 are similar to those planned for LAR Contract 3A. In addition, haul routes are similar for LAR Contract 3A and LAR Contract 1. Most of the roads use for these projects are the same. The main difference in the haul routes include one way access from I-80 at 29th St into Sutter's Landing Park. Table 3- 3 and Table 3- 4 compare the materials transported, equipment and staff for LAR Contract 1 and LAR Contract 3A. Work under LAR Contract 3A includes significantly less materials to transport requiring less

equipment and staff. The analysis done in the LAR Contract 1 SEA/SEIR determined that there were additional impacts (impacts to public safety, road conditions, and parking availability) not discussed in the ARCF GRR FEIS/FEIR. Because LAR Contract 3A is much smaller, requires less materials to be transported and requires less staff, the impacts to traffic and circulation, which are discussed in the following paragraph, would be less than the impacts analyzed for LAR Contract 1.

Similar to the ARCF GRR FEIS/FEIR, Section 3.8.3 of the LAR Contract 1 SEA/SEIR determined that based on the anticipated 19.7 truck trips per day a significant unavoidable impact to transportation could not be avoided. In addition, it was determined that with implementation of mitigation measures listed in Section 3.10.6 of the ARCF GRR FEIS/FEIR the impacts related to public safety hazards resulting and inadequate emergency access from construction activities would only be minor. Also implementing these mitigation measures would ensure that impacts related to substantial deterioration of the physical condition of nearby roadways would be minor. Implementing all these mitigation measures for the LAR Contract 3A Proposed Action would similarly decrease these impacts to a minor level for the LAR Contract 3A Proposed Action. Contract 1 also determined that following the mitigation measures listed the in the ARCF GRR FEIS/FEIR, parking would not be limited because vehicles could be parked at staging areas or employees could be transported to the site. This is not applicable for LAR Contract 3A, since parking lots in Sutter's Landing Park would be used as staging areas and for employee parking. This could decrease parking availability for those wanting to visit Sutter's Landing Park. Presumably fewer people would visit the area during construction work under LAR Contract 3A, but mitigation measures already listed in the ARCF GRR FEIS/FEIR would minimize impacts of the Proposed Action on parking availability. Impacts would be reduced with implementation of these mitigation measures but would be short-term and moderate for those wanting to recreate in the area.

Another impact that was not discussed in the ARCF GRR FEIS/FEIR was crossing the Union Pacific Railroad tracks at grade to get to the site. Union Pacific Railroad regulations will be followed around the railroad to reduce the temporary impacts on safety and railroad infrastructure to a minor level.

Because the overall timeframe of ARCF 2016 Projects has been compressed from 10 years to 5 years, more projects would be under construction at the same time than what was anticipated in the ARCF GRR FEIS/FEIR. LAR Contract 2 has been delayed from the time frame analyzed in the ARCF GRR FEIS/FEIR, with the result that parts of LAR Contract 2 and LAR Contract 3A would likely occur at the same time. Some of the haul routes for LAR Contract 2 and LAR Contract 3A are the same. As noted in the ARCF GRR FEIS/FEIR, construction related traffic impacts were already determined to be significant at the ARCF 2016 Project level and changes in temporary use areas including haul routes for LAR Contract 3A would not result in a new significant impact.

In addition to the impacts discussed above, the top of the levee would be closed during construction to allow for truck access to the site. There is not currently a designated bike trail in this area, but there would be in the future. The City of Sacramento is planning on working on constructing Phase II of the Two Rivers Bike Trail the year after the Proposed Action is constructed. This work will pave the road that exists on the top of the levee. This means that

there are likely people who use the top of levee as a mode of transportation for commuting. Mitigation measures already listed in Section 3.10.6 of the ARCF GRR FEIS/FEIR and listed below would help reduce the impact of this closure to those using the top of levee for recreation or commuting. In addition, the mitigation measure listed below will ensure that all impacts to those using the top of levee will be minor.

Overall, the ARCF GRR FEIS/FEIR already determined that ARCF 2016 Projects would cause significant unavoidable impacts to traffic and circulation in the area. Individually after mitigation measures are implemented, Contract 3A would have minor impacts on public safety hazards, emergency access, and the physical condition of roads. In addition, moderate impacts on parking availability at Sutter's Landing Park would occur.

Additional Avoidance, Minimization and Mitigation Measures

- The contractor would prepare a Traffic Control and Road Maintenance Plan that would include, but not be limited to, the following provisions related to bicycle and pedestrian access:
    - Provide signs along affected pedestrian and bicycle pathways announcing scheduled closures and recommended detour routes.
    - Place signal personnel at intersections of construction vehicle pathways and active bicycle and pedestrian facilities.
- The construction contractor would assess damage to roadways used during construction and the UPRR at-grade railroad crossing and would repair all potholes, fractures, or other damages.

3.12 Climate Change

3.12.1 Existing Conditions

The ARCF GRR FEIS/FEIR Section 3.12.11 adequately describes the regional and local climactic setting in the Project Area and surrounding region.

3.12.2 Environmental Effects

3.12.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented. Bank protection or launchable rock trench would be installed at the site downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. The ARCF GRR FEIS/FEIR Section 3.12.5 analyzed GHG emissions and determined that construction activities would exceed the GHG threshold and increase fuel consumption. However, with implementation of mitigation measures listed in Section 3.12.6 of the ARCF GRR FEIS/FEIR, this impact would be reduced to a minor level. After completion of the ARCF GRR FEIS/FEIR, a new analysis completed by the EOE determined that the LAR Contract 3A Project Area is at

high risk for levee failure due to erosion. Because only work downstream of the Business I-80 Bridge would be done under the No Action Alternative, the No Action Alternative would be at higher risk due to flooding than the Proposed Action. This would decrease the area's resilience to possible flooding caused by climate change causing a potentially significant impact.

3.12.2.2 Proposed Action

The ARCF GRR FEIS/FEIR's GHG analysis cannot be directly compared to the LAR Contract 3A project since some of the project area was not included in the initial analysis and since the timing of the construction activities of that ARCF 2016 Projects have changed. A separate analysis is needed to ensure that there will not be a significant impact. As mentioned in Section 3.10.2.2 of this SEA, a qualitative analysis is applicable in this situation because the types of construction activities in LAR Contract 1 are similar to those in the LAR Contract 3A Proposed Action. Also, the amount of materials hauled for LAR Contract 1 and the amount of equipment needed for LAR Contract 1 is significantly more than what is expected for LAR Contract 3A. The analysis done for the LAR Contract 1 SEA/EIR determined that GHGs released would be over the SMAQMD threshold, but that the impact would be minor with the purchase of GHG offset credits as mitigation. These mitigation measures are the same as those listed in the ARCF GRR FEIS/FEIR and consequently are already incorporated into this SEA by reference. Because there is significantly less materials and equipment being used for work for LAR Contract 3A than LAR Contract 1 (Table 3- 3 and Table 3- 4), there would also be less GHG emissions. Consequently, the impacts from the LAR Contract 3A Proposed Action should be less than what was analyzed for LAR Contract 1 and would also be minimized to a minor level through implementing the same mitigation measures listed in LAR Contract 1. Similar to LAR Contract 1, the LAR Contract 3A Proposed Action also does not create facilities that require electricity. In addition the levee upgrades would not generate operation and maintenance activities besides what activities would be happening already at the site. Because of both factors, there would not be anticipated longer term or indirect GHG emissions caused by the Proposed Action.

After the ARCF GRR FEIS/FEIR was finalized, the Council on Environmental Quality released additional guidance on how to do climate change analyses for NEPA documents.

Since the ARCF GRR FEIS/FEIR analysis, an additional analysis prepared by the EOE determined that the LAR Contract 3A Project Area is at high risk for levee failure due to erosion. Implementation of the Proposed Action would increase the resiliency of the LAR to flooding events caused by climate change, as compared to the No-Action Alternative. Also, the USACE design team prepared a site-specific Climate Change Assessment (USACE 2021a) to determine how climate change would likely impact the project and to design alterations that may be needed to reduce possible future impacts from climate change. This assessment determined that climate and sea level change could impact the design of this project in several ways including, higher water surface elevations, increased high flow/stage duration, changes in velocity and flood wave characteristics. In the analysis, overtopping of planting benches from elevated floodwaters that could destabilize planted vegetation was identified as the most likely risk due to climate change. Planting benches have been designed to be variable in height in relation to the OHWM. This variability would provide added resilience to potential changes in the OHWM caused by climate change. Finally, existing vegetation would be removed in order to place the erosion protection

features, then replaced with new plantings. This necessity would lead to a temporary decrease in possible carbon sequestration by vegetation at the site and would release some of the carbon now stored onsite by trees and shrubs that must be removed. This impact is temporary and would be minor with implementation mitigation of measures listed in Section 3.6.6 of the ARCF GRR FEIS/FEIR and Section 3.6.2.2 of this SEA. Most of this vegetation removed from the Project Area is VELB or riparian habitat and would be mitigated through planting of replacement shrubs and trees at a 2:1 or 3:1 ratio, ultimately increasing carbon sequestration offsite.

Overall, construction and subsequent operation and maintenance of the project features planned for Contract 3A would have no net adverse effects on climate change conditions in the area that are not already covered in the ARCF GRR FEIS/FEIR document. Impacts from GHG emissions from the Proposed Action and impacts on carbon sequestration in the area would be minor after GHG offsets are purchased and mitigation sites are established. The Proposed Action would have a beneficial impact on the area's resiliency to possible effects of climate change.

3.13 Recreation

3.13.1 Existing Conditions

The ARCF GRR FEIS/FEIR Section 3.14.1 accurately describes the current regional and local setting in the vicinity of the Project Area, including descriptions of the recreational facilities, uses, and access to the Project Area. These include descriptions of the American River Parkway and Sutter's Landing Park. In addition to these previously described recreational resources, the City of Sacramento's Glenn Hall Park and Glenn Hall Pool facilities are located on the landside of the levee near Paradise Beach. Glenn Hall Park and Pool facilities parking area would provide construction equipment and haul trucks access to the levee. These recreational facilities presently offer swimming, baseball, soccer, and other fitness related opportunities to the public.

3.13.2 Environmental Effects

3.13.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented. Bank protection or launchable rock trench would be installed at the site downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. The ARCF GRR FEIS/FEIR Section 3.14 analyzed impacts to recreation that are relevant to the Project Area. The ARCF GRR FEIS/FEIR concluded that the detours and disruptions caused by closure of portions of the top of levees during project construction would conflict with the requirements of the Wild and Scenic Rivers Act, significantly impacting tranquility of river areas with the project footprint causing significant unavoidable impacts.

3.13.2.2 Proposed Action

Construction of the LAR Contract 3A's 3,000 feet of launchable rock toe would result in detours, top of levee closures, construction work, construction noise, and less vegetation at the

site. This would have an impact to the tranquility of those recreating in the area both on the levee and in the river. This work, however, would not cause more disruption than forecasted in the ARCF GRR FEIS/FEIR. Consequently, the impact analysis contained in the ARCF GRR FEIS/FEIR, finding significant unavoidable, although temporary, impacts to recreational resources within the project area remains applicable to the impacts anticipated from the Proposed Action. Additional mitigation measures related to bikers (listed below) have been added below to try to limit this impact, but the intensity of effect is still considered significant and unavoidable. Additional analysis is provided below for those features of the Proposed Action not included in the ARCF GRR FEIS/FEIR analysis.

The overall ARCF 2016 Project timeline has been compressed from 10 years to 5 years. This would decrease the impacts of the ARCF 2016 Project on recreational resources, since the overall closures, delays, and detours for those recreating throughout the Parkway persist for a shorter timeframe. Even so, these impacts would remain significant and unavoidable, as analyzed in the ARCF GRR FEIS/FEIR.

Under the Proposed Action, four locations for staging areas (Figure 1- 5) have been identified that were not discussed in the ARCF GRR FEIS/FEIR. Three of these staging areas would be in parking lots near the skate park at Sutter's Landing Park. The other location is just upstream of Sutter's Landing Park between the Union Pacific Railroad tracks and the Business I-80 Bridge. The staging area near the Business I-80 Bridge would be visible to those using the top of levee for recreation, but during the project, the top of levee would be closed. The staging areas next to the skate park and basketball courts would not block access to the skate park or basketball court. Only portions of each of the three parking lots would be used for staging. In addition, impacts related to parking would be decreased to short-term and moderate with implementation of mitigation measures listed in the ARCF GRR FEIS/FEIR.

Specific haul routes were also not addressed in the ARCF GRR FEIS/FEIR. The haul routes outlined in the Proposed Action would require that the road on top of the levee to be closed for site access. This would mean that those who utilize the top of levee for recreation would not get to utilize that area during construction. The ARCF GRR FEIS/FEIR has already analyzed closure of the top of levees for construction access and work for this site is still within the 11 miles of work analyzed in the ARCF GRR FEIS/FEIR, so impacts are already covered in the ARCF GRR FEIS/FEIR. The haul routes would also increase traffic at entry routes for Sutter's Landing Park and Glenn Hall Park. This may cause traffic delays to those trying to access Sutter's Landing Park or Glenn Hall Park and could cause a significant temporary impact. The ARCF GRR FEIS/FEIR identified this traffic impact and so the haul routes chosen for the Proposed Action still fall under the ARCF GRR FEIS/FEIR. The haul route access point at Glenn Hall Park is very congested. Work would need to be done at or near the parking lot area to ensure that trucks can fit through the area. This may require closing parking spots, trimming back trees, regrading areas, removing gates, and working around utilities at the park. Use of parking areas for staging and for construction vehicle access may cause disruptions for residents who wish to park in these lots and use the adjacent recreation facilities. Mitigation measures already listed in Section 3.14.6 of the ARCF GRR FEIS/FEIR, also listed below and in Section 3.11.2.2 of this SEA, would decrease this short-term impact to a moderate level.

As already determined in the ARCF GRR FEIS/FEIR, the Proposed Action would cause additional unavoidable impacts to recreational resources in the area. Specific impacts from LAR Contract 3A haul routes and staging areas that were not analyzed in the ARCF GRR FEIS/FEIR would be short-term and moderate after mitigation measures are implemented.

Additional Avoidance, Minimization and Mitigation Measures

In addition to the mitigation measures listed in the ARCF GRR FEIS/FEIR, the following mitigation measures will be implemented for the benefit of public recreation during project construction:

- USACE and the CVFPB would implement the following measures to reduce temporary, short-term construction effects on recreational facilities in the Project Area:
    - Closures of paved trails would be noticed 14-days in advance via signage at the detour locations.
    - Post signs at major entry points for parks and recreation facilities clearly indicating closures and estimated duration of closures. Information signs would notify the public of alternate parks and recreation sites, including boat launch ramps, and provide a contact number to call for questions or concerns.
    - Provide flaggers and post warning signs and signs restricting access before and during construction to ensure public safety.
    - Provide marked detours for all bike trails and on-street bicycle routes that would be temporarily closed during construction. Detours would be developed in consultation with the City of Sacramento Bicycle and Pedestrian Coordinator at least 10 days before the start of construction activities, as applicable. Signs that clearly indicate closure routes would be posted at major entry points for bicycle trails, information signs would be posted to notify motorists to share the road with bicyclists where necessary, and a contact number would be provided to call for questions or concerns. Fences would be erected to prevent access to the Project Area.
    - Provide traffic control in areas where recreational traffic would intersect with construction vehicles.
    - Upon completion of levee improvements, coordinate with the City of Sacramento and Sacramento County to restore access and repair any construction-related damage to recreational facilities to pre-project conditions.

3.14 Hydrology and Water Quality

3.14.1 Environmental Setting

3.14.1.1 Existing Conditions

Section 3.4.1 and Section 3.5.1 of the ARCF GRR FEIS/FEIR adequately describes current hydrological and water quality conditions within the Project Area.

In January of 2021, USACE submitted an application for a Programmatic Clean Water Act (CWA) Section 401 Water Quality Certification for the ARCF 2016 Projects to the Central Valley Regional Water Quality Control Board (CVRWQCB). LAR Contract 3A falls under this certification. The CWA Section 401 Water Quality Certification and Order was received in July of 2021.

3.14.2 Environmental Effects

3.14.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented. A launchable rock trench or bank protection would be constructed along the LAR Contract 3A area downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. Since completion of the hydraulic analysis provided in Section 3.4.6 of the ARCF GRR FEIS/FEIR, additional information has been gathered and additional models have been run. It was determined by the EOE that the location upstream of the Business I-80 Bridge has a high risk for erosion and is subject to an immediate threat of erosion during high flows. Levee failure may be caused from erosion undermining the levee embankment and levees eroding themselves. This consequent failure would lead to significant flooding and its adverse effects on hydrology and water quality.

3.14.2.2 Proposed Action

Even though the erosion protection locations upstream of the Business I-80 Bridge were not analyzed in the ARCF GRR FEIS/FEIR, the Project Area is similarly situated and hydrologically similar to the sites that were analyzed. The erosion protection added to the levee does not increase the overall 11 miles of erosion protection analyzed in the ARCF GRR FEIS/FEIR. Consequently, the hydrologic and water quality analysis presented in the ARCF GRR FEIS/FEIR applies equally to the impacts anticipated from the Proposed Action. However, additional analysis is needed for the erosion protection method, haul routes and staging areas. The following includes an evaluation of those effects.

The erosion protection method for LAR Contract 3A includes launchable toe (Figure 1- 7), which was not considered in the ARCF GRR FEIS/FEIR. Placing launchable rock toe at the end of planting benches at the bank toe requires adding more material below the OHWM than placing rock just on the bank. The addition of rock at or below the water line tends to narrow the channel and raise the stage level of waters flowing through the area, slightly increasing the risk

of overtopping. A hydraulic analysis done by the design team determined that stage increases due solely to the addition of LAR Contract 3A's project features are estimated to be approximately 0.05 feet (USACE 2021b). Preliminary findings from the Sacramento District Cumulative Modeling Team suggest that stage impacts for LAR Contract 3A and LAR Contract 3B could be as high as 0.2 feet without impacting the probability of overtopping (USACE 2021b). Since the impact of 0.05 feet is significantly under the 0.2 feet threshold, it has been determined that the final design for LAR Contract 3A would not have a significant impact on the risk of flooding in the area.

Placement of revetment in the water could result in a temporary sediment plume during construction, generated from the channel bottom and levee side, becoming suspended in the water and could generate turbidity levels above those identified as acceptable by the CVRWQCB's Sacramento and San Joaquin River Basin Plan (CVRWQCB 2019). Revetment would be placed and stacked in the water for construction of the launchable rock toe (Figure 1-7). The ARCF GRR FEIS/FEIR analyzed how bank protection could impact water quality. Bank protection would include placing revetment but not necessarily stacking rock as high as needed for construction of the launchable toe (Figure 1- 6) Nevertheless, placement of stone for the launchable toe during construction would likely cause similar water quality impacts as those analyzed for bank protection in Section 3.5.5 of the ARCF GRR FEIS/FEIR. Best management practices listed in Section 3.5.6 of the ARCF GRR FEIS/FEIR would similarly reduce these short-term impacts to a minor level. In addition, since launchable toe is the structure holding the planting benches in place, if the toe launches during a flood, soil in the planting bench would likely be released into the water. However, planting bench tiebacks have been included in the designs and would limit soil loss so there would be only minor impacts, with an anticipated insignificant net impact to water quality.

In 2021 a Programmatic CWA Section 401 Water Quality Certification and Order was received from the CVRWQCB in July of 2021 for the ARCF 2016 Projects. Some excavated soil could be used on site immediately adjacent to excavation under Clean Water Act Section 401 permit conditions and approval by the CVRWQCB. This Certification and Order included additional Measures, such as a requirement to obtain a Construction General Permit for disturbing more than an acre to address stormwater/erosion effects under the National Pollutant Discharge Elimination System. Accordingly, the mitigation measure listed below would be incorporated to ensure compliance with CWA Section 401 and ensuring that impacts associated with stormwater runoff would be minor.

Specific haul routes and staging areas were not addressed in the ARCF GRR FEIS/FEIR, but Contract 3A haul routes and staging areas are not near waterways and are very unlikely to cause any impact to hydrology and water quality. Moreover, mitigation measures listed in Section 3.5.6 of the ARCF GRR FEIS/FEIR and listed below would prevent risks associated with stormwater runoff from haul routes and staging areas to water quality and fisheries.

In summary, the Proposed Action would cause a negligible and insignificant decrease in channel carrying capacity through the project area, imperceptibly raising the river stage and increasing flood risk, but this adverse effect would be completely offset by the added erosion protection afforded by the launchable rock toe, planting bench and other features of the Contract

3A project. In addition, impacts to water quality from direct construction work and stormwater runoff would be short-term and minor with the implementation of mitigation measures.

Additional Avoidance, Minimization and Mitigation Measures

The mitigation measure within the ARCF GRR FEIS/FIER that states the timeframe for conducting earthwork has been updated to the following: Conduct earthwork during low-flow periods (e.g., approximately May 1 through November 30). In addition, the following mitigation measure has been added:

- The conditions listed in the ARCF Programmatic CWA Section 401 Water Quality Certification and Order will be followed. These conditions supersede any associated mitigation measures listed in the ARCF GRR FEIS/FEIR

3.15 Noise and Vibration

3.15.1 Existing Conditions

The ARCF GRR FEIS/FEIR Section 3.13.1 accurately describes the regional and local noise setting within the ARCF GRR FEIS/FEIR Project Area.

3.15.2 Environmental Effects

3.15.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented. Bank protection or launchable rock trench would be installed at the site downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. A noise analysis was prepared in Section 3.13.5 of the ARCF GRR FEIS/FEIR. The potential exists for significant effects to sensitive receptors within 500 feet or less from the construction site. Impacts from noise would be short term and minor after implementation of mitigation measures listed in Section 3.13.6 of the ARCF GRR FEIS/FEIR.

3.15.2.2 Proposed Action

The ARCF GRR FEIS/FEIR found the potential for significant effects to sensitive receptors within 500 feet of the construction site, but implementing mitigation measures listed in Section 3.13.6 of the ARCF GRR FEIS/FEIR would reduce these impacts. The results of a qualitative noise analysis conducted for the LAR Contract 1 SEA/SEIR are applicable to the Proposed Action because the construction activities undertaken during performance of LAR Contract 1 are similar to those anticipated for the LAR Contract 3A Proposed Action, and because the locations of sensitive receptors are also similar. In addition, the amount of material hauled for LAR Contract 1 and the equipment needed is significantly greater than the quantities expected for LAR Contract 3A, see Table 3- 3 and Table 3- 4. This means that impacts from the LAR Contract 3A Proposed Action should be less adverse than those analyzed for LAR Contract 1 and

would be minimized through implementation of the same mitigation measures listed in LAR Contract 1.

The mitigation measures in the ARCF GRR FEIS/FEIR limit construction activity to hours between 7:00 a.m. and 7:00 p.m.; however, the Proposed Action would limit construction activity to City of Sacramento daytime construction hours, from 7:00 a.m. to 6:00 p.m. on Mondays through Saturday and 9:00 a.m. to 6:00 p.m. on Sundays.

The study determined that for LAR Contract 1, heavy-duty construction equipment at all work sites, as well as peak-hourly haul truck activities, would exceed City and County of Sacramento daytime noise standards of 55 A-weighted decibel (dBA) equivalent continuous level (L_{eq}), causing a significant, temporary short-term construction noise impact. However, this impact would be reduced to a less-than-significant level with mitigation. In addition, the LAR Contract 1 SEA/SEIR determined that the ARCF GRR FEIS/FEIR did not adequately analyze vibration generated during construction. The use of heavy-duty construction equipment could cause vibration impacts depending on the final location of staging areas and work areas, as well as the proximity to existing vibration-sensitive land uses. Further, frequent hauling activities could exceed FTA recommended guidelines for frequent events of 72 vibration decibels (VdB) at some receptors. This would result in significant impacts, but implementing new mitigation measures listed in Section 3.11.3 of the LAR Contract 1 SEA/SEIR and also listed below would reduce the impact. Further, implementation of mitigation measures listed in LAR Contract 1 would decrease noise and vibration impacts for the LAR Contract 3A Proposed Action to a short-term minor level.

Impacts from the Proposed Action to noise, similarly to LAR Contract 1, would be minor once mitigation measures are put in place. In addition, impacts from vibration from construction equipment would be minor with implementation of mitigation measures.

Additional Avoidance, Minimization and Mitigation Measures

The following mitigation measures not included in the ARCF GRR FEIS/FEIR will be added.

- Coordinate with local residents, comply with noise ordinances, and implement BMPs.
    - To the extent feasible and practicable, the primary construction contractors would employ vibration-reducing construction practices so that vibration from construction would comply with applicable noise-level rules and regulations, including the construction vibration standards of the City or County of Sacramento, depending on the jurisdictional location of the affected receptor(s). Project construction specifications would require the contractor to limit vibrations to less than 0.2 inch per second Peak Particle Velocity (PPV), and less than 72 VdB for frequent events or 80 VdB for infrequent events (i.e., heavy-duty construction activities). If construction or truck hauling activity would occur within 75 feet of any occupied building, the contractor would prepare a vibration control plan prior to construction. The plan would include measures to limit vibration, including but not limited to the following:
        - Avoid vibratory rollers and packers near sensitive areas. Alternatives may include pad foot rollers drum rollers, or similar non-vibratory equipment.

- Route heavily loaded trucks away from residential streets, if possible. If no alternatives are available, select the streets with the fewest homes. Depending on the specific truck type that would be used, the contractor could demonstrate with substantial evidence, to the City of Sacramento, that trucks would not exceed applicable thresholds mentioned above.

- Prior to construction activities, notify each residence within 75 feet of construction with contact information to request pre- and post-construction surveys to assess potential architectural damage from levee construction vibration. The survey would include visual inspection of the structures that could be affected and documentation of structures by means of photographs and video. This documentation would be reviewed with the individual owners prior to any construction activities. Post-construction monitoring of structures would be performed to identify (and repair, if necessary) damage, if any, from construction vibration. Any damage would be documented with photographs and video. This documentation would be reviewed with the individual property owners.

- Place vibration monitoring equipment at the property line adjacent to large equipment and, with owner approval, at the back of the residential structures adjacent to the large equipment. Record measurements daily.

3.16 Public Utilities and Services, Including Emergency Services and Human Safety

3.16.1 Existing Conditions

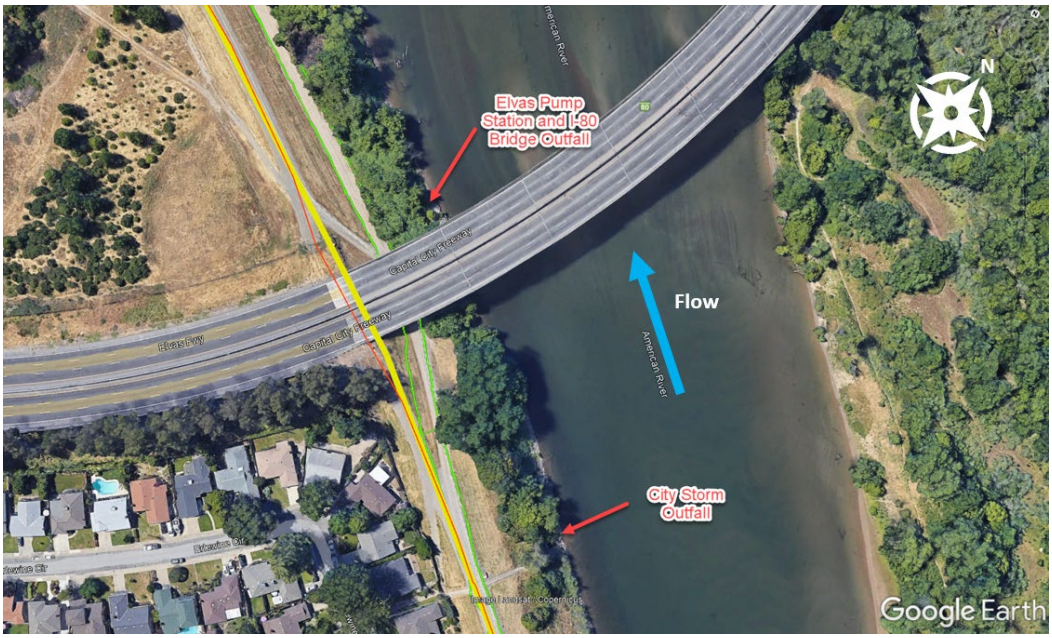


Figure 3- 1 Known Utilities in the Project Area

Section 3.16.1 of the ARCF GRR FEIS/FEIR accurately describes the current regional and local setting with regard to utilities within and adjacent to the Project Area. The following provides additional information specific to the Project Area.

Three known utilities not listed in the ARCF GRR FEIS/FEIR traverse the project area: the Elvas Pump Station outfall pipe, the Business I-80 Bridge runoff pipe, and a City of Sacramento force main outfall and headwall (Figure 3- 1).

3.16.2 Environmental Effects

3.16.2.1 No Action/No Project Alternative

Under the No Action/No Project Alternative, the Proposed Action from the ARCF GRR FEIS/FEIR would be implemented. Bank protection or launchable rock trench would be installed at the site downstream of the Business I-80 Bridge. Vegetation removal would take place outside of nesting season and the sites would be replanted. In addition, the erosion protection, vegetation removal activities, regreening activities, and construction of mitigation sites associated with LAR Contract 1 SEA/SEIR and LAR Contract 2 SEIS/SEIR would be undertaken. Section 3.16.5 of the ARCF GRR FEIS/FEIR analyzed the impacts to public utilities and service systems and determined that construction-related activities could adversely affect existing overhead power lines, telecommunication facilities, stormwater infrastructure facilities and wastewater infrastructure facilities that are buried, penetrate, or protrude from the levee. These facilities would have to be identified and may have to be removed or relocated prior to or during project construction. Project-related traffic congestion and access limitations within the project footprint could hamper fire and police services, but it is unlikely for construction and operational activities associated with the project to necessitate increased fire or police protection services.

3.16.2.2 Proposed Action

Even though the erosion protection locations upstream of the Business I-80 Bridge was not analyzed in the ARCF GRR FEIS/FEIR, the Project Area is similarly situated and has similar land uses as the sites that were analyzed. In addition, the erosion protection added to the levee does not increase the overall 11 miles of erosion protection analyzed in the ARCF GRR FEIS/FEIR. Consequently, the public utilities and service systems analysis already done in the ARCF GRR FEIS/FEIR is deemed applicable to the impacts from the Proposed Action. However, additional analysis is needed for parts of the Proposed Action that was not included in the ARCF GRR FEIS/FEIR analysis.

Specific utility locations were not analyzed in the ARCF GRR FEIS/FEIR. However, the LAR Contract 3A erosion protection features have been designed to avoid adjacent utilities. A ditch with riprap would be installed below the Elvas Pump Station outfall. Revetment placement has been designed to be at grade above the Business I-80 runoff pipe. The launchable rock toe and planting bench features have been designed around the City of Sacramento force main head wall, while a rock apron would be installed at the force main outfall. Since the project would be designed to avoid these resources, it would cause only minor impacts to nearby utilities.

There are also likely utilities at some of the staging areas in Sutter's Landing Park. Know utilities at the staging areas include gas wells, gas piping, monitoring equipment, and solar

panels. In addition, the access point through Glenn Hall Park also has utilities such as electrical lines, electrical infrastructure and water pipes that may interfere with project construction, depending on how contractor access through the area is configured. The implementation of mitigation measures listed in Section 3.16.6 of the ARCF GRR FEIS/FEIR and listed below would reduce any impacts from the Proposed Action to these utility facilities to a less than significant level.

The extent and intensity of proposed construction activities, including road closures and traffic circulation patterns associated with the Proposed Action, could increase the need for first responders to quickly respond to emergency situations in the Project Area due to the increased traffic and the increased construction equipment near a recreational facility. This could result in a temporary significant impact on the capacity of emergency response services. Implementation of mitigation measures provided in Section 3.16.6 of the ARCF GRR FEIS/FEIR would reduce impacts on associated emergency response services, because USACE would prepare and implement a response plan to streamline access points and reduce response times and would notify first responders of the potential for disruptions in the Project Area. With the implementation of these measures, impacts to utilities and public services are anticipated to be short-term and minor.

A few homeless encampments are currently present near or within the erosion protection footprint. The Proposed Action may cause temporary displacement of people and their property. To ensure the safety of all those involved, if homeless people are present in areas where construction will occur as part of the project, USACE, CVFPB, and the construction contractor will work with the City and County of Sacramento and the City of Sacramento's Police Department to notify and remove homeless camps while construction occurs.

Overall, impacts to known utilities from construction activities would be minor due to avoidance in the designs. In addition, impacts to utilities from haul routes and staging areas would be minor after mitigation measures are implemented. The impact of the Proposed Action on the ability of first responders to respond to emergencies in the area would also be minor after mitigation measures are implemented.

Additional Avoidance, Minimization and Mitigation Measures

- USACE and the CVFPB will coordinate with applicable utility and service providers to implement the orderly relocation of utilities that need to be removed or relocated.

Chapter 4 Compliance with Federal Laws and Regulations

4.1 Federal Laws and Regulations

Certain Federal laws and regulations require issuance of permits before project implementation; other laws and regulations require agency consultation but may not require issuance of any authorization or entitlements before project implementation. For each of the laws and regulations addressed in this Section, the description indicates either full compliance (indicated the term "Compliance") or partial compliance (indicated by the term "Partial Compliance"); if partial compliance is indicated, full compliance will be achieved prior to issuance of a NEPA decision document.

Clean Air Act of 1963, as amended, 42 USC 7401, et seq.

Compliance. The Federal Clean Air Act (CAA) requires the U.S Environmental Protection Agency (EPA) to establish National Ambient Air Quality Standards (NAAQS). EPA has established primary and secondary NAAQS for the following criteria air pollutants: ozone, PM10, PM2.5, CO, NO2, SO2, and lead. The primary standards protect the public health, and the secondary standards protect public welfare. The CAA also requires each state to prepare an air quality control plan, referred to as a State Implementation Plan.

USACE released a conformity determination for public notice in March 2020, and the final report was posted in June 2021. Total NOx emissions of the overall ARCF 2016 Projects are expected to exceed the EPA's General Conformity *de minimis* thresholds during several of the ARCF 2016 Project's construction years, including 2023. USACE expects to purchase a sufficient quantity of offsets for NOx emissions from SMAQMD.

Endangered Species Act of 1973, as amended, 16 USC 1531, et seq.

Compliance. Pursuant to the Endangered Species Act (ESA), USFWS and NMFS have regulatory authority over Federally listed species. Under the ESA, a permit to "take" a listed species is required for any Federal action that may harm an individual of that species. Take is defined under ESA Section 9 as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." Under Federal regulation, take is further defined to include habitat modification or degradation where it would be expected to result in death or injury to listed wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering. ESA Section 7 outlines procedures for Federal interagency cooperation to conserve Federally listed species and designated critical habitat.

Section 7(a)(2) requires Federal agencies to consult with USFWS and NMFS to ensure that they are not undertaking, funding, permitting, or authorizing actions likely to jeopardize the continued existence of listed species. A list of threatened and endangered species that may be affected by the Proposed Action was obtained using the online Information for Planning and Consultation database in 2021. This list can be found in Section 3.6 of the LAR Contract 3A

SEIR. USACE formally consulted with USFWS on the ARCF 2016 Project and received a Biological Opinion on September 11, 2015 (USFWS No: 08ESMF00-2014-F-0518). USACE formally consulted with NMFS on the ARCF 2016 Project and received a Biological Opinion on September 9, 2015 (NMFS No: WCRO-2014-1377). Re-initiation of Formal Consultation on the ARCF 2016 Project with USFWS was completed on March 31, 2021 (USFWS No: 08ESMF00-2014-F-0518-R003) and with NMFS on May 12, 2021 (NMFS No: WCRO-2020-03082).

Executive Order 11988, Floodplain Management.

Compliance. The Proposed Action, as an element of the ARCF 2016 Project, will help to mitigate flood risks by improving levees to meet engineering standards associated with the National Flood Insurance Program; it will not alter protection for the 100-year event, nor does it transfer any such risk to other areas. Because the Proposed Action will not directly or indirectly support development in the base floodplain, it will comply with Executive Order (EO) 11988.

Executive Order 11990, Protection of Wetlands.

Compliance. The purpose of EO 11990 is to "minimize the destruction, loss or degradation of wetlands and to preserve and enhance the natural and beneficial values of wetlands." To meet these objectives, EO 11990 requires Federal agencies, in planning their actions, to consider alternatives to wetland sites and limit potential damage if an activity affecting a wetland cannot be avoided. EO 11990 applies to: a) acquisition, management, and disposition of Federal lands and facilities construction; b) improvement projects which are undertaken, financed, or assisted by Federal agencies; and c) Federal activities and programs affecting land use, including but not limited to water and related land resources planning, regulation, and licensing activities. Forested wetlands are located within the footprint of the Proposed Action and will be impacted during construction activities. However, impacts to forested wetlands will be minimized to the greatest extent feasible. Where feasible, forested wetlands will be restored onsite and additional forested wetlands will be created within the American River and other offsite locations to ensure no net loss of wetlands as a result of implementation of the Proposed Action.

Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations.

Compliance. The purpose of EO 12898 is to identify and address the disproportionate placement of adverse environmental, economic, social, or health effects from Federal actions and policies on minority and/or low-income communities. EO 12898 requires that adverse effects on minority or low-income populations be considered during preparation of environmental and socioeconomic analyses of projects or programs that are proposed, funded, or licensed by Federal agencies.

Section 2-2 of EO 12898 requires all Federal agencies to conduct programs, policies, and activities that substantially affect human health or the environment in a manner that ensures that such programs, policies, and activities do not have the effect of excluding persons (including populations) from participation in, denying persons the benefits of, or subjecting persons to discrimination because of their race, color, or national origin. Section 1-101 of EO 12898

requires Federal agencies to identify and address, as appropriate, disproportionately high, and adverse human health, or environmental effects of programs on minority and low-income populations.

The Proposed Action will reduce the risk of flooding to existing residential, commercial, and industrial development protected by LAR levees. The neighborhood nearest the Contract 3A reach of the LAR levee that will be most affected by levee reconstruction work is called River Park. River Park is not considered a low-income or a minority community. Therefore, the Proposed Action is not anticipated to have disproportionately high adverse environmental effects on any minority or low-income population, as disclosed in the ARCF GRR FEIS/FEIR.

Executive Order 13112, Invasive Species.

Compliance. EO 13112 directs Federal agencies to take actions to prevent the introduction of invasive species, provide for control of invasive species, and minimize the economic, ecological, and human health impacts that invasive species cause. EO 13112 also calls for the use of native plants and tree species for site stabilization and restoration. Project construction activities have potential to introduce new invasive plants or spread existing invasive plants at the Project Area. Temporarily disturbed areas will be hydroseeded with a native seed mix that may include sterile non-native species for erosion protection and to prevent colonization of exotic vegetation. In addition, once the project is over, native riparian plants, such as Box elder (*Acer negundo*), Valley Oak (*Quercus lobata*), Willow (*Salix spp.),* grape (*Vitis californica),* Toyon (*Heteromeles arbutifolia*), and rushes (*Juncus spp.*) will be used to replant the site.

Federal Clean Water Act as amended, 33 USC 1251, et seq.

Partial Compliance. EPA is the lead Federal agency responsible for water quality management. The CWA of 1972, as amended (33 USC 1251 et seq.), is the primary Federal law that governs and authorizes water quality control activities by EPA, as well as the State. The Proposed Action will involve construction activities and/or the placement of fill materials near and within Waters of the United States and must comply with permit requirements of Sections 401 and 404 of the CWA. A consistency review per Section 404(b)(1) of the CWA analysis, has been conducted; see Appendix E of the LAR Contract 3A SEIR. USACE obtained a programmatic Water Quality Certification from the CVRWQCB on July 13, 2021. USACE will request authorization from the CVRWQCB to start construction of the Proposed Action under the Programmatic General Permit, Report Type 3 Commencement of Construction. Prior to construction, the contractor will be required to obtain a Construction General Permit for potential effects on stormwater discharge, including preparation of a Storm Water Pollution Prevention Plan. With implementation of these permits, the Proposed Action will comply with the CWA.

Fish and Wildlife Coordination Act of 1958, as amended, 16 USC 661, et seq.

Compliance. The Fish and Wildlife Coordination Act ensures that fish and wildlife receive consideration equal to that of other project features for projects that are constructed, licensed, or permitted by Federal agencies. It requires that the views of USFWS, NMFS, and the applicable State fish and wildlife agency (CDFW) be considered when effects are evaluated, and mitigation needs are determined.

In 2015, during preparation of the ARCF GRR FEIS/FEIR, USACE coordinated with USFWS to consider potential effects to vegetation and wildlife from implementation of the overall ARCF 2016 Project. On October 5, 2015, the USFWS issued a Final Coordination Act Report that provided mitigation recommendations (USFWS File # 08ESMF00-20 13-CPA-0020). USACE considered all recommendations and responded to them in the ARCF GRR FEIS/FEIR. The affected habitats are considered suitable for federally listed species and therefore will be mitigated as described in the BOs. There is overlap of Fish and Wildlife Coordination Act Mitigation with the requirements of the BOs to replace riparian habitats associated with cuckoo and VELB. There are no other non-ESA habitats that would be affected by the Proposed Action that would otherwise been required under the Coordination Act Report.

Magnuson-Stevens Fishery Conservation and Management Act.

Compliance. The Magnuson-Stevens Act requires that all Federal agencies consult with NMFS regarding actions or proposed actions permitted, funded, or undertaken that may adversely affect essential fish habitat. Essential fish habitat is defined as "waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity." The American River is designated as essential fish habitat (EFH) for salmon (winter, fall/late fall, and spring-run) and steelhead. The potential effects of the ARCF 2016 Project on EFH are being coordinated with the NFMS under the Magnuson-Stevens Act, and USACE received EFH conservation recommendations from NMFS on September 9, 2015. On September 24, 2015, USACE transmitted a letter to NMFS responding to the recommendations from NMFS. Additional Consultation was completed with NMFS on May 12, 2021 and the project, including the Proposed Action, was included.

Migratory Bird Treaty Act of 1936, as amended, 16 USC 703 et seq.

Compliance. The Migratory Bird Treaty Act (MBTA) domestically implements a series of international treaties that provide for migratory bird protection. The MBTA regulates the taking of migratory birds; the act provides that it would be unlawful, except as permitted by regulations, "to pursue, take, or kill any migratory bird, or any part, nest or egg of any such bird …" (USC Title 16, Section 703). This prohibition includes both direct and indirect acts, although harassment and habitat modification are not included unless they result in direct loss of birds, nests, or eggs. The current list of species protected by the MBTA includes several hundred species and essentially includes all native birds. Permits for take of nongame migratory birds can be issued only for specific activities, such as scientific collecting, rehabilitation, propagation, education, taxidermy, and protection of human health and safety and personal property. The Proposed Action incorporates mitigation measures, as detailed in the ARCF GRR FEIS/FEIR and Section 3.5.2.2 of this SEA, that minimize the potential for the take of migratory birds because of project work.

National Historic Preservation Act of 1966, as amended.

Partial Compliance. Section 106 of the NHPA and its implementing regulations (36 CFR 800, as amended in 2004) require Federal agencies to consider the potential effects of their proposed undertakings on historic properties. Historic properties are cultural resources that are listed on, or are eligible for listing on, the NRHP (36 CFR 800.16[l]). Undertakings include

activities directly carried out, funded, or permitted by Federal agencies. Federal agencies must also allow the Advisory Council on Historic Preservation (ACHP) the opportunity to comment on the proposed undertaking and its potential effects on historic properties.

Because the ARCF 2016 Project is being implemented in phases which may have varying effects on historic properties, USACE executed a Programmatic Agreement (PA) with the CA SHPO to ensure Section 106 compliance. The PA is included in the ARCF GRR FEIS/FEIR as Appendix C, Enclosure 1. The Historic Properties Management Plan (HPMP) is attachment 3 of Appendix C, Enclosure 1. The PA establishes the process USACE must follow for compliance with Section 106, taking into consideration the views of the signatories and concurring parties and interested Native American Tribes.

In accordance with the PA and the HPMP for the ARCF 2016 Project, USACE has initiated ongoing consultation with Native Americans who attach religious or cultural significance to historic properties, artifacts and human remains that may be affected by the proposed undertaking. In accordance with the PA, USACE will consult with the SHPO, requesting comments on the delineation of the Section 106 Area of Potential Effects (APE), on the adequacy of historic property identification efforts, the methods of cultural investigations, the determinations of eligibility, and on the finding of effect for the Project's phases. USACE has initiated consultation with SHPO and Native American tribes regarding the delineation of the APE for LAR Contract 3A. Consultation is ongoing regarding identification and evaluation of historic properties, and the finding of effect for this Project phase and will be completed prior to award of LAR Contract 3A. Accordingly, the Proposed Action will comply with Section 106 of the NHPA.

Determinations of the specific measures to be implemented to resolve adverse effects to known Historic Properties will be made by USACE, in consultation with the SHPO and Consulting Parties to the PA, as required by the PA and as described in detail in the HPMP for the ARCF 2016 Project. Should USACE make a finding of adverse effect to an historic property for LAR Contract 3A, specific measures that are consistent with the PA and the HPMP will be addressed in an HPTP. Other mitigation and minimization efforts that may be implemented are identified in the ARCF GRR FEIS/FEIR to address potential impacts to unknown cultural resources that could be discovered during construction.

Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended, 42 USC 4601 et seq.

Compliance. Federal, State, regional, and local government agencies, and others receiving Federal financial assistance for public programs and projects that require the acquisition of real property, must comply with the policies and provisions set forth in the Uniform Relocation Assistance (URA) and Real Property Acquisition Policies Act of 1970, as amended in 1987 (the URA), and implementing regulation, 49 CFR Part 24. Relocation advisory services, moving costs reimbursement, replacement housing, and reimbursement for related expenses and rights of appeal are provided in the URA. All or portions of some parcels within the LAR Contract 3A footprint will need to be acquired for project construction. All property acquisitions will comply

with the URA and will be conducted by the Central Valley Flood Protection Board and the Sacramento Area Flood Control Agency, partners on the ARCF 2016 Project.

Wild and Scenic Rivers Act (16 U.S.C. 1217, et seq.)

Partial Compliance. This act was enacted to preserve selected rivers or sections of rivers in their free-flowing condition in order to protect the quality of river waters and to fulfill other national conservation purposes. The Lower American River, below Nimbus Dam, has been included in the Federal Wild and Scenic Rivers system since 1981. The values for which the Lower American River were designated include anadromous fishery resources and recreation. The Proposed Action is consistent with the land use management, flood risk reduction, and levee protection policies of the American River Parkway Plan, the management plan for the Wild and Scenic Rivers Act. These policies require that flood management agencies maintain and improve the existing flood control system and manage vegetation in the American River Parkway to maintain the structural integrity and conveyance capacity of the flood control system, consistent with the need to provide a high level of flood risk reduction (Sacramento County 2008). However, the significant impacts of the Proposed Action to recreation facilities within the American River Parkway would cause direct and adverse effects to the recreational outstandingly remarkable value of the river, as designated under the Wild and Scenic Rivers Act. Similarly, construction-related impacts would cause a direct but temporary adverse effect to the extraordinary fisheries value, and the fisheries habitat would improve over the baseline condition after completion of construction due to the planting berms and additional SRA habitat of the Proposed Action, enhancing bank shading and protection over the long term. A letter was sent to the National Park Service in September of 2020 initiating discussion on the 2016 ARCF Project in relation to the Wild and Scenic Rivers Act (USACE 2020). A consistency determination is being coordinated with the National Park Service and will be in place before the Proposed Action designs are finalized.

Chapter 5 Coordination of the Supplemental Environmental Assessment

This Draft SEA was circulated for 45 days (April 13, 2022 to May 27, 2022) to agencies, organizations, and individuals known to have a special interest in the project. Copies of the Draft SEA are posted on the USACE and CVFPB websites and were made available by mail upon request due to COVID-19 restrictions. This project was coordinated with all appropriate Federal, State, and local governmental agencies including USFWS, SHPO, CDFW, and DWR prior to finalization of this document.

Chapter 6 Findings

This SEA evaluates the expected environmental effects of the Proposed Action. Potential adverse effects to the following resources were analyzed in detail: visual resources, vegetation and wildlife, fisheries, special status species, cultural resources, air quality, transportation, climate change, recreation, hydrology and water quality, noise, and public utilities. The analysis presented in this SEA, as well as related field visits and coordination with other agencies, indicate that the Proposed Action will have no new significant adverse effects on environmental resources beyond those already addressed in the ARCF GRR FEIS/FEIR.

As described in 40 CFR, Section 1508.13, a FONSI may be prepared when an action will not have a significant adverse effect on the human environment, and for which an Environmental Impact Statement will not be prepared. Based on this evaluation and the CFR definition, the Proposed Action analyzed in this SEA qualifies for a FONSI.

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This SEA was prepared by USACE, Sacramento District.

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Appendix A

Cultural Correspondence

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision (COE120203C)

Julianne Polanco
State Historic Preservation Officer
Office of Historic Preservation
1725 23rd Street, Suite 100
Sacramento, CA 95816

Dear Ms. Polanco:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

We are writing to consult on a revision of the Area of Potential Effects (APE) for the upcoming Lower American River Erosion Contract 3 (LAR C3). This project phase was previously comprised of three discontinuous segments of the American River north and south banks in Sacramento, California, between Interstate 80 Business (Capital City Freeway) and Rio Americano High School, upstream of Watt Avenue. The revisions to this APE include adding a fourth segment and splitting the phase into two separate construction contracts, C3A and C3B. C3A includes one segment, 1-1. C3B includes three segments, 3-1, 4-1, and 4-2 as depicted in the enclosed maps (Enclosure 1). Additionally, each contract will now include a Valley Elderberry Longhorn Beetle (VELB) mitigation area.

LAR C3A and C3B features include minimal bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches in order to reduce risk from erosion along the American River levee system, as well as planting and transplanting native plants in the VELB mitigation banks. The APE

for C3A measures approximately 19 acres, and the APE for C3B is approximately 80 acres; vertical APE measures approximately 20 feet. Staging areas are included in the APE polygons on the enclosed maps; access will take place on public roads and established levee maintenance roads.

The VELB Mitigation area sites that will be used for C3A and C3B are Glenn Hall, Rossmoor West, and Rossmoor East. Maps of the 3 proposed VELB mitigation areas are enclosed (Enclosure 1). It is not yet known what areas of these mitigation sites will be used for each contract; therefore, the entirety of the mitigation sites has been included in the APE's for C3A and C3B. Once project design is finalized, each APE will be refined to reflect the exact locations of mitigation plantings.

Consulting Parties have also been provided with the enclosed maps and description of project features for concurrent review. If you would like to comment on the APE of LAR C3A and C3B, please respond to Jessica Tudor Elliott by email at: Jessica.L.TudorElliott@usace.army.mil or by phone at 916-557-7133.

Sincerely,

Jessica Phelps
Acting Chief, Cultural, Recreational, and Social Assessment Section

Enclosure

State of California • Natural Resources Agency
Gavin Newsom, *Governor*

DEPARTMENT OF PARKS AND RECREATION
OFFICE OF HISTORIC PRESERVATION
Armando Quintero, *Director*

Julianne Polanco, State Historic Preservation Officer
1725 23rd Street, Suite 100, Sacramento, CA 95816-7100
Telephone: (916) 445-7000 FAX: (916) 445-7053
calshpo.ohp@parks.ca.gov www.ohp.parks.ca.gov

December 24, 2021 In reply refer to: COE120203C

VIA ELECTRONIC MAIL

Jessica Phelps
Acting Chief,
Cultural, Recreational, and Social Assessment Section
Army Corps of Engineers, Sacramento District
1325 J Street
Sacramento, CA 95814-2922

RE: Consultation for the Lower American River Erosion phase of the American River Common Features Project (ARCF), Sacramento County – Area of Potential Effects (APE) Revision for LAR C3A and C3B.

Dear Jessica Phelps,

The U.S. Army Corps of Engineers (COE) is consulting with the State Historic Preservation Officer (SHPO) pursuant to Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the *Programmatic Agreement among the U.S. Army Corps of Engineers and the California, State Historic Preservation Officer Regarding the American River Common Features Project, Sacramento, Sacramento and Yolo Counties, California* (PA). Executed September 10, 2015. By letter received on December 2, 2021, the COE is seeking comments on their proposal to revise the Area of Potential Effects (APE) to the LAR C3 phase of the ARCF. This Contract phase was comprised of three discontinuous segments of the American Riverbanks in Sacramento between Interstate 80 Business and Rio Americano High School, upstream of Watt Avenue. The proposed APE revision consists of adding a fourth segment and splitting C3 into two areas, C3A and C3B. C3A includes one segment, 1-1, while C4 includes three segments, 3-1, 4-1, and 4-2.

Project activities within LAR C3A and C3B include bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches, and planting in the VELB mitigation areas (Glenn Hall, Rossmoor West, and Rossmoor East, established as part of the LAR C1 and C2 APE). The C3A APE is defined

as 19-acres with a vertical extent of 20-feet below surface. The C3B APE is defined as approximately 80-acres with a vertical extent of 20-feet below surface.

The COE submitted the following document to illustrate the APE revision:

- *Lower American River Erosion Contract 3 (Figures 1-6)* (USACE n.d.)

The COE reports that the current submission is being concurrently provided to interested Native American Tribes and any comments received will be considered.

- If any of the contacted Native American Tribes or other parties to the PA issue comments to the COE for this construction phase, please convey those comments and how the COE has addressed the received comments to the SHPO.

- Ensure the provided figures are correct in their legends, captions/titles, and labeled figures.

- Please provide a map of the LAR phase marked with each contract in order to place the proposed APE modification within the context of the larger phase and the other associated contracts.

If you require further information, please contact Elizabeth Hodges of my staff at (916) 445-7017 or Elizabeth.Hodges@parks.ca.gov.

Sincerely,

Julianne Polanco
State Historic Preservation Officer

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO CA 95814-2922

January 6, 2022

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE (COE120203C)

Julianne Polanco
State Historic Preservation Officer
Office of Historic Preservation
1725 23rd Street, Suite 100
Sacramento, CA 95816

Dear Ms. Polanco:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

We are writing to provide additional documentation regarding our revision of the Area of Potential Effects (APE) for the Lower American River Erosion Contract 3 (LAR C3) project phase. We previously provided you with an APE description and maps of the C3 APE. In a response letter dated 27 December 2021 you requested a map of the entire LAR project. This map is enclosed for your reference (Enclosure 1). Additionally, a correction has been made to one previously submitted map for Contract 3A Site 1-1 (Enclosure 2). Finally, this letter provides a summary of Native American consultation efforts for the LAR C3A and C3B phases to date.

USACE held a meeting with the United Auburn Indian Community (UAIC) and the Shingle Springs Band of Miwok Indians on November 16th to go over all ARCF upcoming or ongoing project phases and provide updates on the phases, APE descriptions, identification efforts, and construction monitoring plans. Additionally, both UAIC and Shingle Springs were sent emails on 1 December 2021 regarding the initial results of the pedestrian survey of C3A and C3B and to plan for the canine forensics

survey within these project phases. On 8 December 2021 USACE provided additional information via email to UAIC and Shingle Springs on some potholing depressions that were observed within the river during a site visit and were further investigated during the pedestrian survey. On 16 December USACE provided GIS Shapefiles of C3A and B 65% design footprints.

In response to the information that USACE provided in meetings and emails, the following responses were received. On 17 December 2021 Melodi McAdams from UAIC indicated via email that they had determined in consultation with Shingle Springs that UAIC would be monitoring on LAR Contracts 1 and 2, while Shingle Springs would monitor on LAR C3A and B. UAIC provided desired locations for the canine forensics survey locations within C3B in an email dated 21 December 2021.

On 3 December 2021 a revised APE letter was sent to the following tribes: Buena Vista Rancheria, Colfax-Todds Valley Consolidated Tribe, Colusa Indian Community Council Cachil Dehe Band of WinTun Indians, Ione Band of Miwok Indians, Kletsel Dehe Band of Wintun Indians, Mechoopda Indian Tribe of Chico Rancheria, Mooretown Rancheria of Maidu Indians, Nashville Enterprise Miwok-Maidu-Nishinam Tribe, Southern Sierra Miwuk Nation, Shingle Springs, Strawberry Valley Rancheria, and UAIC. No responses have been received to date.

If you would like to comment on the APE of LAR C3A and C3B, please respond to Jessica Tudor Elliott by email at: Jessica.L.TudorElliott@usace.army.mil or by phone at 916-557-7133.

Sincerely,

Jessica Phelps
Acting Chief, Cultural, Recreational, and Social Assessment Section

Enclosures

State of California • Natural Resources Agency
Gavin Newsom, *Governor*

DEPARTMENT OF PARKS AND RECREATION
OFFICE OF HISTORIC PRESERVATION
Armando Quintero, *Director*

Julianne Polanco, State Historic Preservation Officer
1725 23rd Street, Suite 100, Sacramento, CA 95816-7100
Telephone: (916) 445-7000 FAX: (916) 445-7053
calshpo.ohp@parks.ca.gov www.ohp.parks.ca.gov

January 20, 2022 In reply refer to: COE120203C

VIA ELECTRONIC MAIL

Jessica Phelps
Acting Chief,
Cultural, Recreational, and Social Assessment Section
Army Corps of Engineers, Sacramento District
1325 J Street
Sacramento, CA 95814-2922

RE: Continuing Consultation for the Lower American River (LAR) Erosion phase of the American River Common Features Project (ARCF), Sacramento County – Area of Potential Effects (APE) Revision for LAR C3A and C3B.

Dear Jessica Phelps,

The U.S. Army Corps of Engineers (COE) is continuing consulting with the State Historic Preservation Officer (SHPO) pursuant to Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the *Programmatic Agreement among the U.S. Army Corps of Engineers and the California, State Historic Preservation Officer Regarding the American River Common Features Project, Sacramento, Sacramento and Yolo Counties, California* (PA). Executed September 10, 2015. By letter received on January 6, 2022, the COE is addressing comments on their proposal to revise the area of potential effects (APE) to the LAR C3 phase of the ARCF to add a fourth segment to the LAR contract (C4) and split the existing C3 contract into two areas, C3A and C3B.

Project activities within LAR C3A and C3B include bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches, and planting in the VELB mitigation areas (Glenn Hall, Rossmoor West, and Rossmoor East, established as part of the LAR C1 and C2 APE). The C3A APE is defined as 19-acres with a vertical extent of 20-feet below surface. The C3B APE is defined as approximately 80-acres with a vertical extent of 20-feet below surface.

By letter issued on December 24, 2021, the SHPO requested to be informed of any comments from other parties to the PA, that the COE ensure the provided figures are correctly captioned and labeled, and that the COE provide a map of the LAR phase marked with each contract in order to place the proposed APE modification within the context of the overall LAR phase. On January 6, 2022, the COE reported that no comments have been received from other parties of the PA, provided a map of the overall LAR phase with the four contract areas marked, and a corrected version of the map for C3A.

I have no further comments on the proposed APE modification for LAR C3/APE establishment for LAR C4. If you require further information, please contact Elizabeth Hodges of my staff at (916) 445-7017 or Elizabeth.Hodges@parks.ca.gov.

Sincerely,

Julianne Polanco
State Historic Preservation Officer

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Ms. Rhonda Morningstar Pope
Chairperson
Buena Vista Rancheria of Me-Wuk Indians
1418 20th Street, Suite 200
Sacramento, CA 95811

Dear Ms. Pope:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

We are writing to consult on a revision of the Area of Potential Effects (APE) for the upcoming Lower American River Erosion Contract 3 (LAR C3). This project phase was previously comprised of three discontinuous segments of the American River north and south banks in Sacramento, California, between Interstate 80 Business (Capital City Freeway) and Rio Americano High School, upstream of Watt Avenue. The revisions to this APE include adding a fourth segment and splitting the phase into two separate construction contracts, C3A and C3B. C3A includes one segment, 1-1. C3B includes three segments, 3-1, 4-1, and 4-2 as depicted in the enclosed maps (Enclosure 1). Additionally, each contract will now include a Valley Elderberry Longhorn Beetle (VELB) mitigation area.

LAR C3A and C3B features include minimal bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches in order to reduce risk from erosion along the American River levee system, as well as planting and transplanting native plants in the VELB mitigation banks. The APE

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Mr. Clyde Prout III
Chairperson
Colfax-Todds Valley Consolidated Tribe
P.O. Box 4884
Auburn, CA 95604

Dear Mr. Prout:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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LAR C3A and C3B features include minimal bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches in order to reduce risk from erosion along the American River levee system, as well as planting and transplanting native plants in the VELB mitigation banks. The APE

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Mr. Daniel Gomez
Chairperson
Colusa Indian Community Council Cachil Dehe Band of WinTun Indians
3730 State Highway 45 #B
Colusa, CA 95932

Dear Mr. Gomez:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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LAR C3A and C3B features include minimal bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches in order to reduce risk from erosion along the American River levee system, as well as planting and transplanting native plants in the VELB mitigation banks. The APE

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Ms. Elizabeth Lydell
Chairperson
Ione Band of Miwok Indians
P.O. Box 699
Plymouth, CA 95669

Dear Ms. Lydell:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Mr. Charlie Wright
Chairperson
Kletsel Dehe Band of Wintun Indians
570 6th St
Williams, CA 95987

Dear Mr. Wright:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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LAR C3A and C3B features include minimal bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches in order to reduce risk from erosion along the American River levee system, as well as planting and transplanting native plants in the VELB mitigation banks. The APE

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Mr. Dennis Ramirez
Chairperson
Mechoopda Indian Tribe of Chico Rancheria
125 Mission Ranch Blvd
Chico, CA 95926

Dear Mr. Ramirez:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Mr. Gary Archuleta
Chairperson
Mooretown Rancheria of Maidu Indians
#1 Alverda Drive
Oroville, CA 95966

Dear Mr. Archuleta:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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LAR C3A and C3B features include minimal bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches in order to reduce risk from erosion along the American River levee system, as well as planting and transplanting native plants in the VELB mitigation banks. The APE

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Mr. Cosme Valdez
Interim Chief Executive Officer
Nashville Enterprise Miwok-Maidu-Nishinam Tribe
P.O. Box 580986
Elk Grove, CA 95758

Dear Mr. Valdez:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

We are writing to consult on a revision of the Area of Potential Effects (APE) for the upcoming Lower American River Erosion Contract 3 (LAR C3). This project phase was previously comprised of three discontinuous segments of the American River north and south banks in Sacramento, California, between Interstate 80 Business (Capital City Freeway) and Rio Americano High School, upstream of Watt Avenue. The revisions to this APE include adding a fourth segment and splitting the phase into two separate construction contracts, C3A and C3B. C3A includes one segment, 1-1. C3B includes three segments, 3-1, 4-1, and 4-2 as depicted in the enclosed maps (Enclosure 1). Additionally, each contract will now include a Valley Elderberry Longhorn Beetle (VELB) mitigation area.

LAR C3A and C3B features include minimal bank cutting and grading, placement of soil-filled rock revetments, buried launchable rock trenches, and construction of planting benches in order to reduce risk from erosion along the American River levee system, as well as planting and transplanting native plants in the VELB mitigation banks. The APE

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT
1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Ms. Regina Cuellar
Chairperson
Shingle Springs Band of Miwok Indians
P.O. Box 1340
Shingle Springs, CA 95682

Dear Ms. Cuellar:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Mr. William Leonard
Chairperson
Southern Sierra Miwuk Nation
P.O. Box 186
Mariposa, CA 95338

Dear Mr. Leonard:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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1325 J STREET
SACRAMENTO, CA 95814-2922

December 2, 2021

Environmental Resources Branch

SUBJECT: Continuing National Historic Preservation Act (NHPA) Section 106 Compliance for American River Common Features Project: Lower American River Erosion Contracts 3A and 3B APE revision

Ms. Tina Goodwin
Chairperson
Strawberry Valley Rancheria
P.O. Box 984
Marysville, CA 95901

Dear Ms. Goodwin:

The U.S. Army Corps of Engineers, Sacramento District (USACE) is writing to continue consultation under Section 106 of the National Historic Preservation Act in compliance with Stipulation I (Time Frames and Review Procedures), Stipulation II (Area of Potential Effects), and Stipulation IV (Identification and Evaluation) of the Programmatic Agreement (PA) for the American River Common Features Project (Project), executed September 10, 2015. USACE is authorized to reduce flood risk to the City of Sacramento, areas along the north and south banks of the American River, and the east bank of the Sacramento River, pursuant to the Water Resources Development Act (WRDA) of 1996 with additional authority provided in WRDA 1999, WRDA 2014, and WRDA 2016.

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